





简介

中重科技®
UZZONGLAB



Excellence through measurement

Sample Grinder HK150

Manual pendulum grinder for fast grinding of iron and steel samples

Grinding Machine HK150

- Compact desktop machine, dustproof, covered working place, halogen spot light
- Reproducible flat surface, easily operated pendulum arm in taper bearings
- Simple and reliable machine construction
- Specially suitable for hard materials, like white cast irons
- Adaptable to various qualities by special stome cup wheels
- Vertical moving of grinding head by handwheel with 0.1 mm scale
- Clean operation by attaching an external dust exhauster at rearside adapter



Technical Data and Accessory

Technical Data

Grinder motor	3 x 400 V/50 Hz, 1.1 kW alt.: 1 x 220 V/60 Hz alt.: 3 x 220 V/60 Hz
Revolutions	2800 rpm/3440 rpm
Lighting	12 V/20 W halogen
Grinding stone	150 x 80 x 32 mm
Grinding height, min.	4 mm
Grinding height, max.	90 mm
Mass	approx. 100 kg
Dimensions	400 x 400 x 680 mm



Cup wheel, open corundum stone



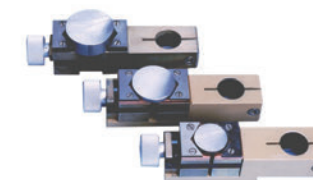
Magnetic plate with quick exchange arm

Standard Accessory

Vice for sample holding
Grinding stone, tool for stone change
Dressing bar for grinding stone
Transport handles

Optional Accessory

Magnetic vice with handle and quick exchange arm
Special vices – bigger vice for max. diam. 58 mm
Hardened vice jaws: 3 mm, 9 mm (regular) and 20 mm
Copper cooling blocks
corundum/silicon carbide cup wheels 150 x 80 x 32 mm
Spare parts kit: 2 bellows, safety glass, halogen lamp



Vices for different sample diameters

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Introduction

About LGC and LGC Standards

关于 LGC 以及 LGC 标准品的介绍

LGC Standards provides the widest range of reference materials from a single supplier. We work closely with the leading manufacturers to provide laboratories worldwide with improved access to reference materials, covering an increasingly large range of parameters. Our global network of offices combined with our extensive technical experience in reference materials allows LGC Standards to work in partnership with our customers to provide fast delivery, sound technical advice and deal with complex import and export regulations.

作为一个单一供应商，LGC标准品部门可提供范围最广泛的标准物质/标准样品。我们与领先的生产厂家合作，向世界范围内的实验室提供获取标准物质/标准样品的卓越渠道，所提供的标准物质/标准样品覆盖着越来越广的范围。我们设在世界各地的分支机构在标准物质/标准样品领域拥有丰富经验，LGC标准品部门在与客户的合作中可以提供快速的物流，专业的技术服务，并且能够应对复杂的进出口规章制度。

LGC Standards is part of LGC, an established leader in laboratory services, measurement standards, reference materials and proficiency testing. LGC's Science and Technology Division acts as the designated UK National Measurement Institute (NMI) for chemical and bioanalytical measurement, and has a long history in the development and validation of analytical methods and the production of reference materials.

LGC 标准品部门是LGC 有限公司的一部分。LGC 公司是集实验室服务，测量标准，标准物质/标准样品及实验室能力验证方面的市场领导者。LGC 科学技术部承担英国政府法定的国家化学和生物化学计量院（NMI）职能。在分析方法的开发，验证及标准物质/标准样品的生产方面拥有很长的历史。

LGC's Science and Technology Division is accredited to ISO Guide 34 (General requirements for the competence of reference materials producers) for the production of reference materials. In its role as the NMI, LGC serves on the International Organisation for Standardisation (ISO) Committee for Reference Materials (REMCO), which aims to carry out and encourage a broad international effort for the harmonization, production and application of certified reference materials (CRMs).

研发各种标准物质/标准样品的LGC科学技术部通过了ISO Guide 34认证（标准物质/标准样品生产者综合能力要求）。作为英国国立的计量机构，LGC同时服务于国际标准组织(ISO)和标准物质委员会(REMCO)，该委员会鼓励并致力于国际间有证标准物质/标准样品(CRMs)的统一、生产与应用。

Breitländer GmbH has been a specialist company in reference materials since 1972 and was acquired by LGC Standards in 2007, joining forces to offer the most extensive range of certified reference materials and standards. Breitländer also brought high quality sample preparation equipment to the portfolio.

Breitländer GmbH 建立于1972年，是标准物质/标准样品行业的专业公司，2007年并入LGC标准品部门，协力提供最广泛的有证对照品和标准物质/标准样品。

Breitländer同时也提供高品质的样品制备设备。

Industrial Analytical (Pty) Ltd. was formed in 1988 specifically to meet the ever-increasing demand in industry to supply Reference Materials for verifying analytical results and proving quality of characterization. Now the single largest supplier of Certified Reference Materials, not only in the Republic of South Africa, but also in the African continent as a whole, Industrial Analytical was acquired by LGC Standards in 2011.

Industrial Analytical (Pty) Ltd.成立于1988年，专注于满足对工业标准物质/标准样品的不断增长的需求，这些标准物质/标准样品用于对分析结果的检验和质量表征的校对。Industrial Analytical不仅是南非最大的有证标准物质/标准样品单一供应商，在整个非洲大陆也是最有规模的一家，在2011年并入了LGC标准品部门。

This catalogue

关于这份目录

This catalogue features certified reference materials and setting-up samples for the cast iron industry. It provides an updated and relevant listing of the available materials on the market. The products are listed in groups according to type and manufacturer. An index of all products is included in the back of the catalogue, listed by name and catalogue number.

这个目录着重收录了用于铸铁工业的有证标准物质/标准样品(CRM)和系统校正样品(SUS)，提供了标准物质/标准样品市场上比较新的一份实用列表。产品按照类型和生产商归组分别列出。目录的最后附上索引，按产品名称和目录号列出了目录中的所有产品。

The analytical data is given in mass percentage. They have to be considered as typical or pilot values, the proper values are to be found in the certificate only, supplied together with the sample. Values in brackets () are not certified and listed for information only. Reference materials can only be produced in limited numbers, mostly due to homogeneity reasons, thus follow-up melts will differ slightly in composition and may differ in dimension between batches. In case you need an exact value or more information on manufacture, material property, methods, uncertainties, etc. prior to selection, do not hesitate to ask for more information.

分析数据以质量百分数提供。这些数据应被看作为典型的或指导性数据，具体的数值请在随样品提供的分析证书上查找。在括号 () 中的数值是未被验证的，仅列出以供参考。标准物质/标准样品只可按限定的数量生产，这很大程度上是因为均一性因素，因此后续的熔化会在样品构成上有细微的差别，在不同批次间也可能会在样品尺寸上有所偏差。如果您需要精确的数值，或者需要对样品的生产、性质、方法、不确定度等方面作更多了解，在选择产品之前，请务必先做咨询。

Producers of reference materials

标准物质/标准样品生产者

This catalogue brings together products from a wide variety of sources. These include certified reference materials from National Measurement Institutes and also reference materials and setting-up samples from many different producers. Most products are supplied with a certificate of analysis although the layout and format of the certificates will vary according to the producer. Setting-up samples come with an information sheet only.

这份目录集中了来源广泛的产品，包括各国国家计量院的有证标准物质/标准样品，以及来自很多不同生产商的标准物质/标准样品和系统校正样品。多数产品随附分析证书，证书的设计和格式根据生产商不同会有所区别。系统校正样品只随附样品信息表格。

The use of reference materials

标准物质/标准样品的用途

Reference materials are instrumental in ensuring the reliability of analytical measurements and so ensuring the use of high quality data as the basis of decision making. 标准物质/标准样品用于帮助确认分析测量的可靠性，从而确保使用高品质的数据作为决策的基础。

When choosing a matrix reference material for a particular application the analyst should consider the following factors before selecting the material:

- Matrix match and potential interference
- Analytes
- Measurement range
- Measurement uncertainties
- Certification procedures used by the producer
- Documentation supplied with the material (e.g. certification or report)

在为特定应用选择基体标准物质/标准样品时，分析者应该考虑以下几个因素：

- 基体的匹配和潜在的干扰
- 分析物
- 测量范围
- 测量不确定度
- 生产者所用的证书出具程序
- 随标准物质/标准样品提供的文件材料（如证书或报告）

Certified Reference Material (CRM)

有证标准物质/标准样品 (CRM)

Reference material, accompanied by a certificate, one or more of whose property values are certified by a procedure which establishes its traceability to an accurate realization of the unit in which the property values are expressed., and for which each certified value is accompanied by an uncertainty at a stated level of confidence. The CRMs are certified by a recognized certifying organization using approved certification procedures of certification as instructed in ISO Guide 35:2006 “Reference Materials – General and statistical principles for certification”. A CRM is the highest order to which an analytical reference material can be elevated because of the traceability to SI units and because of the attributed confidence in the company or organization which produced the material.

标准物质/标准样品，附带分析证书，它的属性值中的某一项或若干项都是按照某一程序进行验证的。这一验证程序建立了这些属性值在它们所被表述的体系中精确体现的可追溯性。正因如此，每一个经验证的数值都伴随着在某一特定的置信水平下的不确定度。这些有证标准物质/标准样品（CRMs）都是经过一个公认的认证组织使用已经确认可信的验证程序进行验证的，正如 ISO Guide 35:2006 所介绍的：“标准物质/标准样品——用于检定的，常规的统计学上的依据”。由于国际标准单位（SI）对其可追溯性的要求，由于生产标准物质/标准样品的公司和组织对其所赋予的信任，有证标准物质/标准样品是分析标准物质/标准样品可以被提升到的最高规格。

Reference Material (RM)

标准物质/标准样品 (RM)

A material or substance one or more of whose property values are sufficiently homogeneous and well established to be used for calibration of an apparatus, the assessment of a measurement method or for assigning values to materials. The RMs usually have been through interlaboratory testing using many analysts and are supplied with a certificate of analysis but do not strictly follow all procedures of certification as indicated in ISO Guide 35.

一种原料或物质，其某一种或几种属性值表现出充分的均一性，并且可以很好的用于设备的校准，分析方法的评估，或者物质的定值。标准物质/标准样品通常通过了多个实验室多个分析员的检测，并且随附分析证书，不过没有严格的按照 ISO Guide 35 所规定的验证程序进行验证。

Setting-Up Samples (SUS)

系统校正样品 (SUS)

Materials of minimum inhomogeneity to be used for monitoring or adjustment of the analytical signal of the instruments. These materials are assigned values during calibration with CRMs and RMs, thus they do not have a certified analysis, but a guiding one only. Such standards are also referred to as “re-calibration samples”, “drift control samples” and “monitor samples”.

具有最小的不均质性的物质，用于检验或调整仪器的分析信号。这些物质通过使用 CRMs 或 RMs 的校准来确定数值，因此它没有经过经验证的分析，只是一个指导性的值。这样的标准样品也被称为“二次标定的样品”，“偏差控样”或者“监控样”。

More catalogues

更多目录

LGC Standards will be releasing additional catalogues to cover the rest of our extensive range of reference materials and standards including:

- Copper base
- Aluminum base
- Geological
- Industrial
- Non-ferrous base
- Precious metals
- Steel
- XRF Glass
- Mechanical testing
- Combustion and wet chemistry analysis

LGC 标准品部门将发布更多目录，并将覆盖在我们已有标准物质/标准样品的广泛范围之外的其他领域，包括：

- 铜基产品
- 铝基产品
- 地质学产品
- 工业产品
- 非铁基产品
- 贵金属产品
- 钢产品
- XRF 玻璃样品
- 机械试验法样品
- 燃烧及湿化学分析方法样品

我们会持续扩充新的产品，所以请您联系我们以获取新的产品以及服务，并确保您已订阅了我们的免费时事通讯，并保持自动更新。

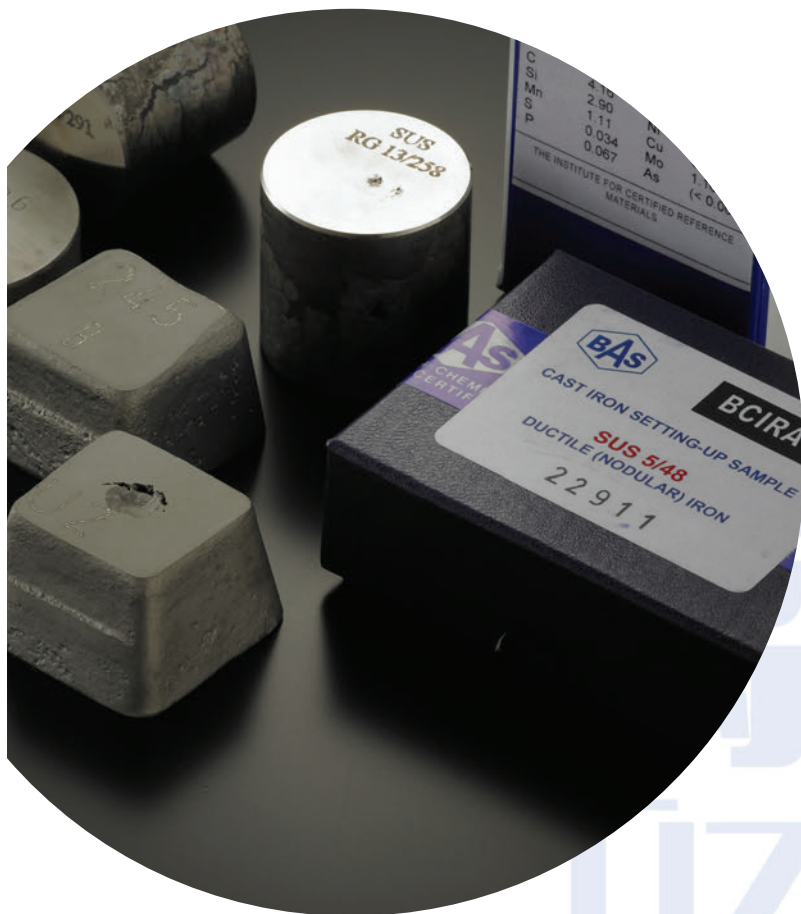
请将邮件发送到：**CRMs@uzong.cn**

国内联系方式

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电邮：**info@uzong.cn**

电话：**400 808 4598 021-54305890**



有证标准物质/标准样品 盘状及块状固体样品

重科技®
JZONGLAB



Excellence through measurement



Proficiency Testing

LGC Standards Proficiency Testing (PT) is an international provider of proficiency schemes, accredited to ISO/IEC 17043.

The company operates 39 proficiency testing schemes serving over 7,000 laboratories in more than 140 countries worldwide, helping our customers to achieve excellence through measurement.

Benefits of participation

- A truly independent assessment of measurement quality, which enables laboratories to compare their analytical capabilities with peer laboratories
- Rapid round cycle – from despatch to report in 4 weeks
- The results obtained in proficiency testing are recognised as a demonstration of laboratory quality by a range of 'third parties', customers, regulators and accreditation bodies

The industry leading schemes

AQUACHECK – Water chemistry

Wide range of real, synthetic and simulated samples for the analysis of organic, inorganic and water quality parameters, samples for the analysis of ecotoxicological and radiochemical parameters

CONTEST – Contaminated land

Comprehensive range of standard solutions, soil extracts and soil materials for the analysis of organic and inorganic parameters

STACKS – Stack emissions

Stack (impinger) solutions containing a range of analytes at routinely determined concentrations and filter samples for elements specified in EN 14385



For further information contact: LGC Standards Proficiency Testing

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铸铁通用样品集

Code	Product																		Unit
SPL-CZ02033-1A	(a)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-2B	(b)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-3A	(c)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-4A	(d)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-5A	(e)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-6A	(f)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-7A	(g)	CRM	Cast Iron, ø40x18mm																disc
SPL-CZ02033-8A	(h)	CRM	Cast Iron, ø40x18mm																disc
			Al	B	Bi	C	Ce	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	Pb	S	Sb	
	(a)		0.048	0.0004	0.005	3.26	0.018		0.018	0.015	0.052	0.858	0.119	0.233	0.044		0.011		
	(b)		0.026	0.0100		3.54	(0.03)	0.023	0.051	0.69	0.030	0.098	0.008	0.634	0.049		(0.01)	0.017	
	(c)		0.025	0.0053	0.008	3.72	0.013	0.007	0.205	0.406	0.013	0.333	0.514	0.050	0.022	0.007	0.011		
	(d)		0.015			4.18		0.002	0.040	0.081		0.236	0.002	0.056	0.053	0.006	0.034		
	(e)		0.060			2.30			0.054	0.014		0.804	0.100	0.096	0.035		0.100		
	(f)		0.022			3.14			1.40	0.225		1.22	0.005	0.023	0.077		0.032	0.056	
	(g)		0.029			3.11		0.044	0.479	0.022		0.321	1.07	1.29	0.043		0.019		
	(h)		0.015		0.017	3.49			0.126	0.116		0.408	0.026	0.094	0.169	0.006	0.073	0.001	
			Si	Sn	Ti	V	W	Zn											
	(a)		2.33	0.035	0.039	0.018	0.016	0.001											
	(b)		1.28	0.021	0.099	0.059	(0.003)	0.013											
	(c)		2.30	0.008	0.006	0.010													
	(d)		0.71	0.007	0.015	0.004		0.007											
	(e)		1.26		0.008	0.005													
	(f)		3.37	0.119	0.066	0.300													
	(g)		1.83		0.027	0.005	0.022												
	(h)		2.20	0.040	0.027	0.034	0.011												

铸铁畅销样品

Code	Product																		Unit
CKD-241B	(a)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
CKD-242A	(b)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
CKD-242B	(c)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
CKD-244C	(d)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
CKD-245A	(e)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
CKD-245B	(f)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
CKD-246B	(g)	CRM	Cast Iron, complex alloyed, 38x38x23 mm																block
			Al	As	B	Bi	C	Ce	Co	Cr	Cu	Fe	La	Mg	Mn	Mo	N	Nb	Ni
	(a)		0.003	0.002	0.001		1.84		0.004	0.683	0.011	(93.2)			0.06	0.61	0.0053	0.003	0.021
	(b)		0.036	0.015	0.008	(0.015)	1.84		0.002	0.029	0.055	(92.9)			0.06	1.13		0.013	0.039
	(c)		0.042	0.009	0.005	0.02	2.06		0.004	0.031	0.04	(92.6)			0.189	1.21	0.0092	0.009	0.022
	(d)		0.071	0.043	0.086		2.57	0.017	0.05	0.248	0.301	(92.9)	0.008	0.031	0.715	0.059		0.006	0.344
	(e)		0.019	0.002	0.007	0.008	2.94		0.003	0.166	0.076	(92.7)		0.003	1.38	0.114		(0.001)	0.161
	(f)		0.038	0.006	0.003	0.009	2.95		0.007	0.197	0.081	(92.5)		0.003	1.38	0.115		0.029	0.194
	(g)		0.101	0.003		(0.001)	2.73	0.007	0.012	1.16	1.39	(92.6)	0.003	0.016	0.354	0.009		(0.001)	0.065
			P	Pb	S	Sb	Se	Si	Sn	Te	Ti	V	W	Zn	Zr				
	(a)		0.007	0.001	0.123	0.139		3.15	(0.003)		0.001	0.08	0.001						
	(b)		0.039	(0.012)	0.036	0.007		3.06	0.01	(0.08)	0.19	0.37	(0.007)						
	(c)		0.044	0.027	0.028	0.005	(0.002)	2.81	0.01	(0.031)	0.28	0.46	(0.002)						
	(d)		0.027	0.003	0.012	0.004		2.15	0.175		0.034	0.002	0.052	0.027	0.037				
	(e)		0.41	0.015	0.039	0.05	(0.036)	1.58	0.076	(0.018)	0.087	0.073	0.021		0.003				
	(f)		0.42	0.020	0.035	0.052	(0.029)	1.59	0.076	(0.017)	0.110	0.055	0.020		0.004				
	(g)		0.66	(0.002)	0.02	0.004		0.76	0.002		0.014	0.013	(0.011)						

Code	Product						Unit
BAS-SCRM 651/4	(a)	CRM	Malleable Irons, 48x42x12 mm				block
BAS-SCRM 652/4	(b)	CRM	Malleable Irons, 48x42x12 mm				block
BAS-SCRM 653/4	(c)	CRM	Malleable Irons, 48x42x12 mm				block
BAS-SCRM 654/4	(d)	CRM	Malleable Irons, 48x42x12 mm				block
BAS-SCRM 655/4	(e)	CRM	Malleable Irons, 48x42x12 mm				block
		C	Cr	Mn	P	S	Si
	(a)	2.66	(1)	0.92	0.249	0.1	0.541
	(b)	2.34	(1)	1.19	0.071	0.129	0.878
	(c)	3.1	(1)	0.11	0.023	0.05	1.22
	(d)	2.28	(1)	0.74	0.13	0.17	1.635
	(e)	1.9	(1)	0.44	0.18	0.076	2.11
BAS-SCRM 656/8	(a)	CRM	Low Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 657/8	(b)	CRM	Low Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 658/10	(c)	CRM	Low Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 659/8	(d)	CRM	Low Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 660/9	(e)	CRM	Low Phosphorus Engineering Irons, 48x42x12 mm				block
		C	Cr	Mn	P	S	Si
	(a)	2.61	(1)	0.823	0.062	0.107	2.59
	(b)	2.93	(1)	0.062	0.1	0.024	3.02
	(c)	3.338	(1)	0.532	0.187	0.074	1.943
	(d)	3.96	(1)	1	0.025	0.039	1.4
	(e)	3.461		0.406	0.153	0.105	1.699
BAS-SCRM 661/4	(a)	CRM	High Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 662/4	(b)	CRM	High Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 663/4	(c)	CRM	High Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 664/4	(d)	CRM	High Phosphorus Engineering Irons, 48x42x12 mm				block
BAS-SCRM 665/4	(e)	CRM	High Phosphorus Engineering Irons, 48x42x12 mm				block
		C	Cr	Mn	P	S	Si
	(a)	2.56	(1)	0.3	0.84	0.068	2.96
	(b)	2.95	(1)	0.76	0.3	0.087	2.33
	(c)	3.28	(1)	1.04	0.13	0.024	1.97
	(d)	2.84	(1)	0.57	0.44	0.112	2.71
	(e)	3.25	(1)	0.24	1.09	0.053	1.66

Code	Product											Unit		
BAS-SCRM 666/11	(a)	CRM	Ductile (Nodular) Irons, 48x42x12 mm											block
BAS-SCRM 667/12	(b)	CRM	Ductile (Nodular) Irons, 48x42x12 mm											block
BAS-SCRM 668/12	(c)	CRM	Ductile (Nodular) Irons, 48x42x12 mm											block
BAS-SCRM 669/12	(d)	CRM	Ductile (Nodular) Irons, 48x42x12 mm											block
BAS-SCRM 669/13	(e)	CRM	Ductile (Nodular) Iron, 48x42x12 mm											block
BAS-SCRM 670/15	(f)	CRM	Ductile (Nodular) Irons, 48x42x12 mm											block
		C	Ce	Cr	Cu	Mg	Mn	Mo	Ni	Si	Ti	V		
	(a)	3.371	0.0035	0.129	0.0506	0.073	0.065	0.107	1.648	1.77	0.086	0.0549		
	(b)	3.06	0.081	0.298	0.55	0.04	0.236	0.0063	1.298	2.966	0.0029	0.096		
	(c)	3.740	0.023	0.999	0.655	0.0093	0.701	0.0206	0.105	1.426	0.0817	0.193		
	(d)	3.009	0.0415	0.203	0.235	0.0203	0.563	0.061	0.445	2.634	0.0555	0.505		
	(e)	3.17	0.052	0.205	0.2141	0.0267	0.584	0.0586	0.509	2.523	0.0549	0.502		
	(f)	3.711	0.0085	0.497	0.923	0.041	0.354		0.889	2.155	0.1096	0.0249		



低合金及非合金铸铁样品

Code	Product																			Unit
SEI-KTC-12/1-01	(a)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-02	(b)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-03	(c)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-04	(d)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-05	(e)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-06	(f)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-07	(g)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-08	(h)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-09	(i)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
SEI-KTC-12/1-10	(j)	CRM	Plain Cast Iron ø34x5mm (Set of 10 only)																	disc
			Al	B	Bi	C	Ca	Ce	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Sb	Si	Sn	
	(a)		0.001	0.089		3.96			0.10	0.50	0.80	0.30		0.002		0.034	0.15	0.40		
	(b)		0.013	0.077	0.010	3.87			0.21	0.42	0.63	0.24		0.009		0.018	0.10	0.84		
	(c)		0.018	0.052	0.013	3.73			0.28	0.27	0.05	0.11		0.017		0.076	0.048	1.18		
	(d)		0.033	0.029	0.004	3.52			0.43	0.20	0.50	0.42	0.02	0.30		0.061	0.008	1.59		
	(e)		0.054	0.008	0.001	3.40		0.001	0.26	0.11	0.41	0.047	0.54	0.11	0.007	0.047	0.004	2.11	0.001	
	(f)		0.029	0.001	0.001	3.35	0.0008	0.015	0.35	0.01	0.35	0.002	0.42	0.076	0.006	0.026		2.22	0.41	
	(g)		0.052			3.30	0.0013	0.11	0.03		0.32		0.28	0.050	0.002	0.016		2.45	0.30	
	(h)		0.059			3.04	0.0017	0.067			0.26		0.20	0.030	0.016	0.010		2.71	0.20	
	(i)		0.068			2.92	0.0028	0.011			0.21		0.10	0.52	0.045	0.005		2.95	0.11	
	(j)		0.097			2.50	0.0052	0.028		0.52	0.10		0.01	0.68	0.031	0.0027		3.09	0.045	
			Ti	V	Zn															
	(a)				0.005															
	(b)				0.002															
	(c)				0.010															
	(d)				0.020	0.024														
	(e)				0.14	0.034														
	(f)		0.013	0.048																
	(g)		0.095	0.10																
	(h)		0.059	0.20																
	(i)		0.17	0.31																
	(j)		0.22	0.004																

低合金及非合金铸铁样品

Code	Product					Unit						
VASKUT-120	(a)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-121	(b)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-122	(c)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-123	(d)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-124	(e)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-125	(f)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-126	(g)	CRM	Cast Iron, 30x30x13 mm			block						
VASKUT-127	(h)	CRM	Cast Iron, 30x30x13 mm			block						
			C	Mn	P	S	Si					
	(a)		3.34	0.59	0.059	0.18	1.84					
	(b)		3.32	0.61	0.135	0.17	(1.86)					
	(c)		3.31	0.61	0.22	0.2	1.72					
	(d)		3.3	0.69	0.31	0.074	(1.87)					
	(e)		2.97	0.62	0.5	0.051	1.63					
	(f)		3.2	0.73	0.7	0.019	(1.87)					
	(g)		3.16	0.81	1.41	0.016	1.9					
	(h)		3.14	0.79	1.55	0.014	1.81					
VASKUT-201	(a)	CRM	Cast Iron, low alloyed, 30x30x13 mm			block						
VASKUT-202	(b)	CRM	Cast Iron, low alloyed, 30x30x13 mm			block						
VASKUT-203	(c)	CRM	Cast Iron, low alloyed, 30x30x13 mm			block						
VASKUT-204	(d)	CRM	Cast Iron, low alloyed, 30x30x13 mm			block						
VASKUT-205	(e)	CRM	Cast Iron, low alloyed, 30x30x13 mm			block						
VASKUT-206	(f)	CRM	Cast Iron, low alloyed, 30x30x13 mm			block						
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Sn
	(a)		2.77	2.9	0.1	0.74	0.13	2.47	0.024	(0.009)	1.71	(0.31)
	(b)		3.16	2.36	0.24	0.81	0.44	2.07	0.024	(0.01)	1.77	(0.21)
	(c)		3.14	1.79	0.43	0.79	0.91	1.63	0.024	(0.009)	1.78	(0.16)
	(d)		3.15	1.22	0.64	0.8	1.38	1.09	0.023	(0.009)	1.79	(0.215)
	(e)		3.32	0.64	0.81	0.8	1.79	0.61	0.025	(0.01)	1.88	(0.035)
	(f)		3.32	0.12	1.01	0.75	2.14	0.21	0.027	(0.01)	1.84	(0.107)

Code	Product																Unit		
CTIF-FPA1	(a)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO4	(b)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO5	(c)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO6	(d)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO7	(e)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO8	(f)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO9	(g)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO10	(h)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
			As	C	Co	Cr	Cu	Mn	Mo	N	Ni	P	S	Si	Sn	Ti	V		
	(a)		0.0109	3.09	0.0097	0.071	0.0622	0.1	0.0109	0.0125	0.045	0.0022	0.0009	0.03		0.001	0.001		
	(b)			2.81		0.17	0.31	0.64	0.095		0.32	0.58	0.009	1.51	0.013	0.075	0.049		
	(c)			3.2		0.3	0.12	0.2	0.41		0.172	1.3	0.027	0.7	0.109	0.04	0.14		
	(d)			3.49		0.45	0.12	0.715	0.202		0.128	0.87	0.106	0.55	0.039	0.08	0.11		
	(e)			2.45		0.455	0.125	0.7	0.26		0.15	0.84	0.085	0.675		0.065	0.13		
	(f)			3.6		0.3	0.215	0.37	0.005		0.3	0.107	0.021	1.04	0.05	0.055	0.014		
	(g)			2.7		0.18	0.31	0.7	0.13		0.355	0.02	0.015	1.5	0.144	0.017	0.022		
	(h)			3.5		0.38	0.114	1.05	0.2		0.118	0.2	0.101	0.67		0.1	0.08		
CTIF-FO11	(a)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO12	(b)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO17	(c)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO18	(d)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FO19	(e)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
			Al	C	Co	Cr	Cu	Mn	Mo	Ni	P	S	Si	Sn	Te	Ti	V		
	(a)			3.45	(0.013)	0.34	0.211	0.685	0.225	0.235	0.052	0.103	1.57	0.066		0.078	0.113		
	(b)		0.008	3.71			0.77	0.44			0.038	0.004	1.86	0.011					
	(c)			3.01	0.032	(0.016)	(0.006)	0.475		0.021	0.47	0.168	2.48	0.024		0.032	0.018		
	(d)			3.25		0.087	0.09	0.52	0.16	0.19	1.11	0.132	1.33	0.15		0.17	0.17		
	(e)			4.04				1.05			0.032	0.057	1.05		0.0005				

低合金及非合金铸铁样品

Code	Product																		Unit
CTIF-FL1	(a)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FL3	(b)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FL4	(c)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FL5	(d)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FL6	(e)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FL10	(f)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
			Al	As	B	B (sol.)	Bi	C	Co	Cr	Cu	Mn	Mo	N	Nb	Ni	P	Pb	S
	(a)							2.1	(0.022)	0.06	0.0195	0.8	0.038			0.245	0.118	0.0765	
	(b)							2.3		0.107	0.102	0.27	0.106	0.008		0.553	0.729	(0.013)	
	(c)			(0.05)			(0.003)	2.6		0.45	0.0168	0.5	0.09	0.007		0.061	0.288	0.137	
	(d)				(0.002)		(0.0005)	2.8	0.01	0.35	0.5	0.4	0.01			0.05	0.02	(0.005)	
	(e)				0.008			3.1	0.028	0.167	0.079	0.6	0.5			1.03	0.012	0.18	
	(f)	(0.03)	(0.022)			(0.012)	(0.004)	3.1		(0.07)	0.104	0.85	0.0335		(0.018)	0.1	0.323	(0.002)	0.066
			Sb	Si	Sn	Te	Ti	V	W	Zn									
	(a)			3.2	0.305		0.02	0.015											
	(b)			2.1	0.111		0.05	0.049											
	(c)			2.91	0.011		0.0296	0.116											
	(d)			2.3	0.07		0.01	0.01											
	(e)			1.4	0.005		0.15	0.033											
	(f)	(0.032)	1.3		0.028	(0.001)	0.045	0.048	(0.02)	(0.029)									
CTIF-FT1	(a)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FT2-1	(b)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FT3	(c)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
CTIF-FAL1	(d)	RM	Cast Iron, low alloyed, ø43x5 (x2) mm																disc
			Al	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Sn	Ti	V				
	(a)			2.9	0.057	0.012	0.71		0.11	0.12	0.025	2.12	0.067	0.19	0.525				
	(b)			3.39	0.03	0.01	0.78		0.07	0.045	0.095	1.415		0.1	0.405				
	(c)			3.2	0.685	0.015	0.345		0.092	0.063	0.051	1.55		0.2	0.016				
	(d)	2.1	3		0.04	0.2	0.2	0.015	0.06	0.04	<0.001	1		0.01					

Code	Product									Unit
SEI-KTC-15 N-1	(a)	CRM	N for cal. curve ø35x20mm							disc
SEI-KTC-15 N-2	(b)	CRM	N for cal. curve ø35x20mm							disc
SEI-KTC-15 N-3	(c)	CRM	N for cal. curve ø35x20mm							disc
SEI-KTC-15 N-4	(d)	CRM	N for cal. curve ø35x20mm							disc
SEI-KTC-15 N-5	(e)	CRM	N for cal. curve ø35x20mm							disc
		Al	C	Cr	Mn	N (insol.)	N (sol.)	P	S	Si
	(a)	0.050	0.015	0.21	0.10	0.0001	0.0012	0.002	0.003	0.10
	(b)	0.048	0.014	0.29	0.10	0.0002	0.0048	0.002	0.003	0.10
	(c)	0.048	0.012	0.19	0.10	0.0003	0.0076	0.002	0.003	0.10
	(d)	0.048	0.012	0.20	0.10	0.0002	0.0110	0.003	0.004	0.10
	(e)	0.050	0.012	0.41	0.11	0.0008	0.0194	0.003	0.004	0.10

禹重科技®
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低合金及非合金铸铁样品

Code	Product																			Unit
MBH-11X C1 P	(a)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C2 S	(b)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C3 Z	(c)	CRM	Low Alloy Iron, ø40x~17 mm																	disc
MBH-11X C4 Q	(d)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C5 U	(e)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C6 V	(f)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C7 N	(g)	CRM	Low Alloy Iron, ø40x15 mm																	disc
MBH-11X C8 T	(h)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C9 B	(i)	CRM	Low Alloy Iron, ø40x17 mm																	disc
MBH-11X C10 B	(j)	CRM	Low Alloy Iron, ø40x15 mm																	disc
			Al	As	B	Bi	C	Cd	Co	Cr	Cu	Mn	Mo	N	Nb	Ni	P	Pb	S	
	(a)		0.0193	0.018	0.052	0.006	2.85		0.082	0.538	0.164	1.262	0.075	0.0044	0.17	0.696	0.105	0.011	0.0383	
	(b)		0.049	0.029	0.0072	0.007	3.54		0.113	0.794	0.133	0.961	0.096	0.0057	0.084	1.006	0.2	0.015	0.086	
	(c)		(0.015)	0.12	(0.0028)	(0.002)	3.27		0.376	2.43	0.431	0.797	0.235		0.186	4.14	0.387	(0.008)	0.152	
	(d)		0.032	0.0103	0.018	0.005	1.89	0.0014	0.0175	1.5	0.342	0.651	0.114		0.072	2.41	0.111	0.0155	0.138	
	(e)		0.006	0.0225	0.0172	0.006	2.49		0.105	1.15	2.71	0.791	0.497		(0.088)	2.05	0.097	0.023	0.103	
	(f)		(0.018)	0.0499	0.0053	0.005	3.76		0.094	0.606	0.89	1.088	1.561	0.0152	0.023	0.06	0.069	0.006	0.0567	
	(g)		0.0127	0.0159	0.0097	0.0137	2.51		0.0335	0.507	0.075	1.942	0.071	0.025	0.051	0.0303	0.0266	0.0106	0.0101	
	(h)		0.016	0.077	0.0409	0.041	3.03		0.174	0.501	0.317	0.486	0.158	0.0075	(0.082)	0.32	0.843	0.023	0.189	
	(i)		0.005	0.046	0.0058	(0.011)	2.82		0.132	1.31	0.299	1.88	0.158		0.062	2.58	0.032	0.0044	0.0306	
	(j)		0.034	0.0163			3.53	(0.001)		0.285	0.614	0.672	0.318	0.009		0.263	0.092	(0.002)	0.096	
			Sb	Se	Si	Sn	Te	Ti	V	W	Zn	Zr								
	(a)		0.064	0.01	1.483	0.032		(0.14)	0.101		0.0208	0.005								
	(b)		0.068	(0.009)	1.281	0.065		0.042	0.29	0.098	0.002									
	(c)		0.264	0.0026	0.944	0.236	0.0024	0.071	0.796	(0.054)	0.0111									
	(d)		0.011	(0.003)	3.02	0.0207	0.001	0.091	0.0233	0.122	0.0112	0.006								
	(e)		0.037	0.0046	1.78	0.021	0.005	0.079	0.0537	(0.083)	0.011	(0.004)								
	(f)		0.037	0.007	0.487	0.0585		0.049	0.0608		0.025	0.005								
	(g)		0.025		0.829	0.0114		0.022	0.036	0.066	0.0226	(0.003)								
	(h)		0.068	(0.073)	1.61	0.091	0.0043	0.115	0.0637	0.0175	0.007									
	(i)		0.152	0.0091	1.19	0.052	0.015	0.054	0.475	0.286	0.01									
	(j)		0.0112		1.98	0.034		0.0191	0.0107	0.349										
MBH-11X CC21A	(a)	CRM	Low Alloy Iron, Double Chill Cast, ø45x6 mm																	disc
MBH-11X CC22A	(b)	CRM	Low Alloy Iron, Double Chill Cast, ø45x6 mm																	disc
			Al	As	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Sn	Ti	V				
	(a)		0.0024	0.0101	3.12	0.351	0.153	0.785	0.0357	0.107	0.0246	0.083	2.19	0.0078	0.0259	0.0083				
	(b)		(0.002)	0.009	3.7	0.319	0.712	0.69	0.021	0.06	0.033	0.08	1.82	0.012	0.029	0.0087				

Code	Product																	Unit		
NCS HS11711A-1	(a)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
NCS HS11711A-2	(b)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
NCS HS11711A-3	(c)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
NCS HS11711A-4	(d)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
NCS HS11711A-5	(e)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
NCS HS11711A-6	(f)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
NCS HS11711A-7	(g)	CRM	Low Alloy Cast Iron ø30x20mm (Set of 7 only)																	disc
			B	C	Ce	Cr	Cu	La	Mg	Mn	Mo	Ni	P	S	Si	Sn	Ti	V	W	
	(a)		0.524	3.31		2.02	0.571		0.00033	0.317	0.811	0.063	0.051	0.029	0.930	0.282	0.223	0.329	0.323	
	(b)		0.261	3.18	0.034	1.62	1.12	0.015	0.038	0.715	0.559	1.01	0.447	0.0061	2.28	0.107	0.478	0.201	0.172	
	(c)		0.096	3.72	(0.0002)	1.61	0.846	0.0060	0.014	1.12	0.467	0.528	0.251	0.038	1.50	0.289	0.388	0.133	0.049	
	(d)		0.021	4.03	(<0.00005)	0.476	0.148	(<0.00005)	0.0015	0.987	0.018	0.054	0.727	0.098	0.246	0.0035	0.031	0.317	0.0073	
	(e)		0.0025	3.00	0.0033	0.784	0.536	0.096	0.077	1.27	0.384	0.940	0.140	0.0034	2.65	0.038	0.078	0.043	0.284	
	(f)		0.524	2.69	0.0088	1.31	0.338	0.0057	0.034	1.70	0.224	0.247	0.395	0.021	3.68	0.102	0.129	0.250	0.444	
	(g)		0.018	1.81	0.122	0.212	1.73	0.023	0.0010	1.99	0.152	1.09	0.091	0.0082	3.35	0.0064	0.131	0.057	0.972	

低合金及非合金铸铁样品

Code	Product																		Unit		
BAS-LARM 1	(a)	RM	Low Alloy Cast Irons, 40x37x10 mm																		block
BAS-LARM 2	(b)	RM	Low Alloy Cast Irons, 40x37x10 mm																		block
BAS-LARM 3	(c)	RM	Low Alloy Cast Irons, 40x37x10 mm																		block
BAS-LARM 4	(d)	RM	Low Alloy Cast Irons, 40x37x10 mm																		block
BAS-LARM 5	(e)	RM	Low Alloy Cast Irons, 40x37x10 mm																		block
			Al	As	B	Bi	C	Ce	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Si	Sn	Ti		
	(a)				0.006	0.011	(3)	0.005	0.5	2.49	(0.3)		0.49	(0.05)		(<0.01)	(2)	0.14			
	(b)		0.066	0.044			(3)	0.008	2.5		(0.3)	0.22		(0.05)	0.007		(<0.01)	(2)	0.22	0.33	
	(c)		0.042	0.092	0.003	0.022	(3)			1.2	(0.3)		1.8	(0.05)		(<0.01)	(2)				
	(d)		0.014				(3)	0.008	1.19	0.26	(0.3)	1		(0.05)	0.018	(<0.01)	(2)	0.11	0.17		
	(e)			0.018	0.0012	0.001	(3)				(0.3)	0.62	2.46	(0.05)	0.0005	(<0.01)	(2)	0.025			
			V																		
	(a)		0.11																		
	(c)		0.55																		
	(e)		0.24																		
BAS-SCRM 671	(a)	CRM	Blast Furnace Irons, 40x37x10 mm																		block
BAS-SCRM 672	(b)	CRM	Blast Furnace Irons, 40x37x10 mm																		block
BAS-SCRM 673	(c)	CRM	Blast Furnace Irons, 40x37x10 mm																		block
BAS-SCRM 674	(d)	CRM	Blast Furnace Irons, 40x37x10 mm																		block
BAS-SCRM 675	(e)	CRM	Blast Furnace Irons, 40x37x10 mm																		block
			Al	As	C	Co	Cr	Cu	Mn	Mo	Ni	P	S	Si	Sn	Ti	V	Zn			
	(a)		0.038	0.022	2.86	0.097	0.059	0.047	0.837	0.018	0.056	0.106	0.049	0.98	0.007	0.09	0.01	0.0004			
	(b)		0.008	0.004	4.08	0.158	0.024	0.068	0.491	0.099	0.082	0.242	0.037	0.18	0.0018	0.039	0.109	0.0144			
	(c)		0.028	0.044	2.47	0.053	0.037	0.023	0.133	0.006	0.147	0.328	0.006	1.72	0.0191	0.072	0.059	0.0004			
	(d)		0.004	0.028	3.32	0.014	0.021	0.101	1.48	0.048	0.144	0.011	0.081	0.48	0.014	0.023	0.024	0.0187			
	(e)		0.007	0.035	1.92	0.023	0.08	0.012	1.81	0.034	0.21	0.045	0.072	1.29	0.0062	0.007	0.178	0.0006			

Code	Product																		Unit		
BS-1B	(a)	RM	Cast Iron, ø32x17 mm																		disc
BS-4C	(b)	RM	Chill-cast Iron, ø32x17 mm																		disc
NIST-C1145A	(c)	CRM	White Cast Iron, ø32x19mm																		disc
NIST-C1291	(d)	CRM	High Alloy (Ni-Hard, Type I), ø32x19mm																		disc
			Al	As	B	Bi	C	Ca	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	N	Nb	Ni		
	(a)		0.015	0.004	0.012		2.5		0.01	0.2	0.79	0.013			1.89	0.175		0.021	2.12		
	(b)		0.003	0.007	0.0002		3.82	0.0013	0.01	0.014	0.111	0.014	0.002	0.0002	0.21	0.105	0.008	(0.0005)	0.068		
	(c)		(0.04)	(0.03)	(0.02)	(<0.01)	2.92			0.058	0.63	0.46			0.187	0.48		0.62			
	(d)						2.67				2.78	0.26			1.14	0.32		4.34			
			P	Pb	S	Sb	Si	Sn	Te	Ti	V	W	Zr								
	(a)		0.026	(0.001)	0.035	(0.001)	1.85	0.01	0.021	0.057	0.113	0.1	(0.002)								
	(b)		0.003	(0.0004)	0.001	0.0012	0.52	(0.0004)	0.0011	0.002	0.0005	(0.006)	0.01								
	(c)		0.215	0.0012	0.191	(0.04)	0.271	(0.1)		0.012	0.112		(0.002)								
	(d)		0.028		0.032		1.34			0.031											

铸铁合金样品

Code	Product											Unit
CTIF-NH1	(a)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH2	(b)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH3	(c)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH4	(d)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH5	(e)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH6	(f)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH7	(g)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH8	(h)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
CTIF-NH9	(i)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm									disc
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	
	(a)		2.98	0.83	1.99	0.9	1.45	1.38	0.06	0.105	1.35	
	(b)		2.5	1.26	1.02	1.04	1.01	1.78	0.047	0.058	1.81	
	(c)		3.47	1.76	0.031	0.175	0.73	2.53	0.36	0.024	0.85	
	(d)		2.84	2.46	0.09	0.28	0.3	3.6	0.12	0.022	0.49	
	(e)		2.31	2.85	0.035	0.24	0.017	4.9	0.115	0.04	0.31	
	(f)		2.7	6.6	0.115	0.355	0.11	7.06	0.066	0.036	2.28	
	(g)		3.43	9.02	0.105	0.63		5.53	0.035	0.022	0.95	
	(h)		2.98	5.03	0.065	0.57	0.125	8.16	0.052	0.076	0.8	
	(i)		3.13	11.7	0.203	0.65	0.059	4.11	0.087	0.029	1.24	
CTIF-FCR1	(a)	RM	Cast Iron, Cr-alloyed, ø43x5 (x2) mm									disc
CTIF-FCR2	(b)	RM	Cast Iron, Cr-alloyed, ø43x5 (x2) mm									disc
CTIF-FCR3	(c)	RM	Cast Iron, Cr-alloyed, ø43x5 (x2) mm									disc
CTIF-FCR4	(d)	RM	Cast Iron, Cr-alloyed, ø43x5 (2x) mm									disc
CTIF-FCR5	(e)	RM	Cast Iron, Cr-alloyed, ø43x5 (x2) mm									disc
CTIF-FCR6	(f)	RM	Cast Iron, Cr-alloyed, ø43x5 (x2) mm									disc
CTIF-FCR7	(g)	RM	Cast Iron, Cr-alloyed, ø43x5 (x2) mm									disc
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	
	(a)		2.46	18.71	0.031	0.63	1.41	1.3	0.019	0.007	0.45	
	(b)		2.86	11.8	0.135	0.74	3.88	1.87	0.137	0.055	1.07	
	(c)		2.08	14.85	0.0485	1.02	0.91	0.652	0.034	0.035	0.25	
	(d)		2.47	24.2	1.32	2.05	2.16	0.571	0.097	0.066	1.4	
	(e)		3.43	28.5	1.02	0.62	3.27	2.69	0.052	0.0175	0.35	
	(f)		1.44	30.84	0.48	1.47	0.455	0.188	0.201	0.086	0.76	
	(g)		3.59	33.65	0.704	0.365	2.62	0.947	0.099	0.0427	1.07	

Code	Product									Unit
CTIF-FCRN11	(a)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm							disc
CTIF-FCRN12	(b)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm							disc
CTIF-FCRN13	(c)	RM	Cast Iron, high alloyed, ø43x5 (x2) mm							disc
			C	Cr	Cu	Mn	Ni	P	S	Si
	(a)		1.27	26.2	0.02	0.71	16.5	0.41	0.06	1.63
	(b)		2.02	29		0.61	13.05	0.185	0.024	1.5
	(c)		2.74	31.65		0.47	11.05	0.036	0.011	0.69
MBH-11X HPC1 G	(a)	CRM	High P Cast Iron, ø40x15 mm							disc
MBH-11X HPC2 K	(b)	CRM	High P Cast Iron, ø40x~17 mm							disc
MBH-11X HPC3 H	(c)	CRM	High P Cast Iron, ø40x15 mm							disc
MBH-11X HPC4 P	(d)	CRM	High P Cast Iron, ø40x~17 mm							disc
MBH-11X HPC5 A	(e)	CRM	High P Cast Iron, ø40x17 mm							disc
			C	Cr	Mn	P	S	Si		
	(a)		3.22		0.499	0.75	0.0311	2.6		
	(b)		2.85	2.05	0.775	1.55	0.066	2.19		
	(c)		3.77		1.316	1.96	0.0513	1.58		
	(d)		3.15	1.57	0.804	2.03	0.094	1.08		
	(e)		3.68	1.42	1.028	0.246	0.223	1.175		

铸铁合金样品

Code	Product																		Unit	
CTIF-3601B	(a)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-4497	(b)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-4500	(c)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-5037	(d)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-5781	(e)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-5783	(f)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-6134	(g)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-6135	(h)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-6736	(i)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-7160	(j)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-8018	(k)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
CTIF-8532	(l)	RM	Magnesium treated cast iron, ø43x5 (x2) mm																disc	
			Al	As	C	Ce	Co	Cr	Cu	Mn	Ni	P	Pb	S	Sb	Si	Sn	Ti	V	
	(a)				3	<0.01		0.029	0.019	0.35	1.08	0.037	(<0.002)	(0.005)		2.1		0.016	(0.005)	
	(b)				3.16			0.04	0.048	0.6	1.2	0.043		(0.0025)		2.66	0.094	0.03	0.44	
	(c)	0.033			3.38	0.023	0.065	0.014		0.6	1.45	0.059		(0.002)		1.97				
	(d)				3.04			0.014		0.76	0.64	0.043		(0.0025)		3.4		0.029		
	(e)				3.35			0.04	<0.01	0.26	0.83	0.03		(0.0025)		2.5				
	(f)			0.0015	2.55		0.0074	0.054	0.11	0.195	1.23	0.027		(0.0025)		2.31		0.016	0.013	
	(g)				3.7	<0.03		0.04	0.02	0.25	2	0.03		<0.01		1.6				
	(h)	(0.006)			3.6		0.037	0.04	0.0219	0.38	1.98	0.013		(0.003)		0.9		0.007	0.0155	
	(i)				2.8			0.03	0.0258	0.65	1.7	0.012		(0.002)		1.6		0.008	(0.03)	
	(j)	(0.02)		0.009	3.1	0.02	0.09	(0.1)	0.08	0.57	1	0.05		(0.001)		2.4		0.013	0.018	
	(k)	0.02			3	(<0.02)		0.09	0.08	0.7	0.127	0.07		(0.0015)	(0.01)	3	0.07	0.06	0.39	
	(l)				3.7	<0.025		0.04	0.0443	0.288	0.888	0.05				2.6	0.0303	0.02	0.07	
			Zn																	
	(a)		<0.05																	

因为这些标准物质/标准样品的每一个都是独一无二的，所以单一的 Mg 含量无法列出。

如果您希望获取 Mg 的含量在适宜范围的样品，请告知我们您的需求。

因为这些标准物质/标准样品的每一个都是独一无二的，所以单一的 **Mg** 含量无法列出。
如果您希望获取 **Mg** 的含量在适宜范围的样品，请告知我们您的需求。

Code	Product																		Unit
NCS HS11712A-1	(a)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
NCS HS11712A-2	(b)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
NCS HS11712A-3	(c)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
NCS HS11712A-4	(d)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
NCS HS11712A-5	(e)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
NCS HS11712A-6	(f)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
NCS HS11712A-7	(g)	CRM	Nitrogen Cast Iron ø30x28mm (Set of 7 only)																disc
			Al	C	Ce	Cr	Cu	La	Mg	Mn	Mo	N	Ni	P	S	Si	Sn	Ti	V
	(a)		0.248	1.75	(<0.0001)	2.48	0.025	(<0.0001)	0.00006	0.080	0.031	0.015	0.030	0.580	0.119	3.40	0.0031	0.038	0.021
	(b)		0.060	2.22	0.0010	2.13	0.458	0.010	0.0085	0.301	0.087	0.024	0.341	0.043	0.058	2.44	0.044	0.065	0.055
	(c)		0.034	2.55	0.027	0.417	0.641	0.0061	0.024	0.878	0.354	0.024	0.519	0.071	0.045	1.50	0.021	0.027	0.085
	(d)		0.0073	3.16	(<0.0001)	1.40	0.921	(<0.0001)	0.025	0.462	0.428	0.0073	0.778	0.396	0.017	1.96	0.024	0.065	0.166
	(e)			3.52	(<0.0001)	2.48	0.389	(<0.0001)	0.021	0.311	0.629	0.0047	1.03	0.420	0.019	1.17	0.013	0.161	0.324
	(f)		0.019	4.02	(<0.0001)	0.112	1.83	(<0.0001)	0.104	1.41	0.726	0.013	1.89	0.021	0.026	0.163	0.057	0.238	0.509
	(g)		0.214	3.94	(<0.0001)	1.05	1.10	(<0.0001)	0.056	1.38	0.168	0.0063	1.37	0.085	0.0048	0.918	0.134	0.114	0.390
NIST-C1290	(a)	CRM	High Alloy (HC-250 + V), ø32x19mm																disc
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	V							
	(a)		3.04	30.5	0.065	0.66	(0.041)	0.917	0.03	0.013	0.971	0.442							

铸铁合金样品

Code	Product																	Unit		
SEI-KTC-9 B1	(a)	CRM	Alloy Cast Iron ø34x5mm (Set of 6 only)																	disc
SEI-KTC-9 B2	(b)	CRM	Alloy Cast Iron ø34x5mm (Set of 6 only)																	disc
SEI-KTC-9 B3	(c)	CRM	Alloy Cast Iron ø34x5mm (Set of 6 only)																	disc
SEI-KTC-9 B4	(d)	CRM	Alloy Cast Iron ø34x5mm (Set of 6 only)																	disc
SEI-KTC-9 B5	(e)	CRM	Alloy Cast Iron ø34x5mm (Set of 6 only)																	disc
SEI-KTC-9 B6	(f)	CRM	Alloy Cast Iron ø34x5mm (Set of 6 only)																	disc
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si									
	(a)		2.4	1.0	0.05	0.05	0.05	1.0	0.005	0.10	3.0									
	(b)		2.6	0.8	0.2	0.2	0.2	0.8	0.025	0.09	2.8									
	(c)		3.0	0.6	0.4	0.4	0.4	0.6	0.05	0.06	2.2									
	(d)		3.3	0.4	0.6	0.6	0.6	0.4	0.07	0.04	1.8									
	(e)		3.7	0.2	0.8	0.8	0.8	0.2	0.09	0.02	1.4									
	(f)		4.0	0.05	1.0	1.0	1.0	0.05	0.12	0.003	1.0									
BAS-SIMO 1/3	(a)	RM	Silicon Molybdenum Irons, 48x42x12 mm																	block
BAS-SIMO 2/2	(b)	RM	Silicon Molybdenum Irons, 48x42x12 mm																	block
			Al	As	C	Ce	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Si	Sn	Ti	V	
	(a)		0.026	0.047	2.70		0.013	0.899	0.028	0.036	0.333	0.776	0.030	0.040	0.007	4.07	0.048	0.007	0.007	
	(b)		0.013	0.039	2.14	0.006	0.0029	0.856	0.010	0.026	0.434	0.484	0.0189	0.025	0.007	4.75	0.038	0.005	0.009	
CTIF-SIMO-1	(a)	RM	Cast Iron, ø43x5 (x2) mm																	disc
CTIF-SIMO-2	(b)	RM	Cast Iron, ø43x5 (x2) mm																	disc
CTIF-SIMO-3	(c)	RM	Cast Iron, ø43x5 (x2) mm																	disc
CTIF-SIMO-4	(d)	RM	Cast Iron, ø43x5 (x2) mm																	disc
CTIF-SIMO-5	(e)	RM	Cast Iron, ø43x5 (x2) mm																	disc
			Al	C	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Si	Ti	V				
	(a)			2.98	(0.03)	0.036	0.035	0.019	0.365	0.752	0.065	0.013	(0.0015)	4.03	(0.018)	(0.018)				
	(b)		1.51	(2.85)	(0.03)	0.038	0.036	0.072	0.335	1.04	(0.061)	0.026	(0.001)	3.85	(0.016)	(0.017)				
	(c)		1.15	3.18	0.0296	0.11	0.0325	0.03	0.61	0.604	0.066	0.053	(0.0006)	4.02	0.0176	0.0171				
	(d)		(0.038)	2.7	(0.015)	0.0845	0.0657	0.1	0.28	0.4	(0.029)	0.0211	(0.0015)	4.35	0.0171	0.0133				
	(e)			2.94	(0.013)	0.032	0.0121		0.439	0.841	0.194	0.0282		4.31	0.01	(0.0095)				
CTIF-NIMO-1	(a)	RM	Cast Iron, ø43x5 (x2) mm																	disc
			C	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Si	Sn	Ti	V				
	(a)		3.22	0.0205	0.0353	0.376	0.003	0.2	0.457	2.165	0.059	(0.003)	2.585	0.002	0.019	0.0169				

Code	Product													Unit
BAS-NIRM 1	(a)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 2	(b)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 3	(c)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 4	(d)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 5	(e)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 6	(f)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 7	(g)	RM	Austenitic (Ni-Resist) Irons, 40x37x10 mm											Each
BAS-NIRM 8/1	(h)	RM	Austenitic (Ni-Resist) Irons, 48x42x12 mm											Each
			C	Ce	Cr	Cu	Mg	Mn	Mo	Nb	Ni	P	S	Si
	(a)		2.05	0.018	0.246	0.2	0.021	6.72			11.8	0.055	0.005	3.15
	(b)		2.91	0.017	1.49	5.86	0.037	2.01			13.88	0.1	0.011	1.53
	(c)		2.51	0.007	2.43	1		0.51		0.09	17.8	0.208	0.096	2.21
	(d)		1.97	0.011	3.56	0.52	0.014	2.37		0.37	20.2	0.051	0.008	3.03
	(e)		2.93	0.001	0.5	0.22	0.04	1.09		0.2	22.1	0.126	0.004	1.73
	(f)		2.44	0.003	1.7	0.1		3.97	0.45		26.7	0.217	0.062	2.43
	(g)		2.04	0.005	3.53	0.52	0.019	0.71	0.99		32.9	0.058	0.02	3.05
	(h)		1.34	0.013	2.34	0.23	0.043	1.6	0.75		35.2	0.109	0.01	5.42
CTIF-NR1S	(a)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR2S	(b)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR3S	(c)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR4S	(d)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR5S	(e)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR6S	(f)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR8S	(g)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
CTIF-NR4G	(h)	RM	Cast Iron, Ni resist with Mg, ø43x5 (x2) mm											disc
			C	Cr	Cu	Mn	Ni	P	S	Si				
	(a)		2.58	2	0.11	1.54	20.6	0.19	0.0015	3.02				
	(b)		2.32	0.51	0.21	0.53	36.3	0.062		1.43				
	(c)		2.92	3.05	0.33	0.77	24.63	0.024		2.91				
	(d)		2.47	1.5	0.63	1.71	18.3	0.145		4.87				
	(e)		1.67	0.24	0.5	1.23	27.05	0.035		1.97				
	(f)		1.82	1.06	0.03	0.99	30.75	0.019		2.44				
	(g)		3.05	0.191	0.071	4.39	14.2	0.124		1.41				
	(h)		2.3	1.4	0.64	1.72	21.3	0.11		5.6				

这些标准物质/标准样品所包含的 **Mg** 元素含量都在 **0.003%到 0.25%**之间，不过具体的数值无法在预先给出。请告知我们您的需求。

铸铁合金样品

Code	Product										Unit	
CTIF-NR1L	(a)	RM	Cast Iron, Ni resist, ø43x5 (x2) mm								disc	
CTIF-NR3L	(b)	RM	Cast Iron, Ni resist, ø43x5 (x2) mm								disc	
CTIF-NR4L	(c)	RM	Cast Iron, Ni resist, ø43x5 (x2) mm								disc	
CTIF-NR5L	(d)	RM	Cast Iron, Ni resist, ø43x5 (x2) mm								disc	
CTIF-NR6L	(e)	RM	Cast Iron, Ni resist, ø43x5 (x2) mm								disc	
CTIF-NR8L	(f)	RM	Cast Iron, Ni resist, ø43x5 (x2) mm								disc	
			C	Cr	Cu	Mn	Ni	P	S	Si		
	(a)		2.5	1.74	0.49	1.34	25.87	0.125	0.1	3		
	(b)		2.99	2.97	0.26	0.72	21.58	0.088	0.052	3.05		
	(c)		2.41	1.403	0.758	1.495	15.9	0.155	0.01	5.89		
	(d)		1.77	0.27	0.48	1.207	33.89	0.037	0.083	2.99		
	(e)		1.76	3.49	0.02	0.7	30.37	0.031	0.063	2.07		
	(f)		2.89	0.165	0.075	5.19	13.33	0.054	0.03	1.7		
CTIF-NRCU1-1B	(a)	RM	Cast Iron, aust., Ni-resist, ø43x5 (x2) mm								disc	
CTIF-NRCU2	(b)	RM	Cast Iron, aust., Ni-resist, ø43x5 (x2) mm								disc	
CTIF-NRCU3	(c)	RM	Cast Iron, aust., Ni-resist, ø43x5 (x2) mm								disc	
			Al	C	Cr	Cu	Mn	Ni	P	S	Si	
	(a)	(0.095)	3.12	0.994	4.95	1.465	18.02	0.172	0.09	0.99		
	(b)		2.5	2.05	6.5	1.07	15.9	0.115	0.049	2.07		
	(c)		1.94	3.5	8.05	0.6	13.3	0.046	0.016	3.12		
BAS-NCRM 1	(a)	RM	Nickel Chromium Irons, 40x37x10 mm								block	
BAS-NCRM 2	(b)	RM	Nickel Chromium Irons, 40x37x10 mm								block	
BAS-NCRM 3	(c)	RM	Nickel Chromium Irons, 40x37x10 mm								block	
BAS-NCRM 4	(d)	RM	Nickel Chromium Irons, 40x37x10 mm								block	
BAS-NCRM 5	(e)	RM	Nickel Chromium Irons, 40x37x10 mm								block	
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	V
	(a)		3.05	0.55	2.17	1.22	1.02	0.57	0.3	0.156	0.95	0.03
	(b)		2.97	1.99	1.67	0.95	0.36	2.1	0.068	0.119	1.82	0.16
	(c)		3.24	3.95	1.21	0.67	0.78	3.64	0.125	0.09	0.29	0.02
	(d)		2.66	7.94	0.68	0.4	0.57	5.34	0.203	0.012	2.13	0.11
	(e)		3.7	10.44	0.204	0.27	0.1	6.74	0.025	0.015	1.15	0.06

Code	Product												Unit		
NCS HS11716-1	(a)	CRM	High Cr Cast Iron ø33x20mm (Set of 6 only)												disc
NCS HS11716-2	(b)	CRM	High Cr Cast Iron ø33x20mm (Set of 6 only)												disc
NCS HS11716-3	(c)	CRM	High Cr Cast Iron ø33x20mm (Set of 6 only)												disc
NCS HS11716-4	(d)	CRM	High Cr Cast Iron ø33x20mm (Set of 6 only)												disc
NCS HS11716-5	(e)	CRM	High Cr Cast Iron ø33x20mm (Set of 6 only)												disc
NCS HS11716-6	(f)	CRM	High Cr Cast Iron ø33x20mm (Set of 6 only)												disc
			C	Cr	Cu	Mn	Mo	Nb	Ni	P	S	Si	Ti	V	
	(a)		1.63	33.9	0.223	0.722	0.332	0.161	0.366	0.041	0.076	1.76	0.055	0.417	
	(b)		1.76	10.43	1.52	1.08	1.49	0.686	1.34	0.093	0.031	0.559	0.018	0.059	
	(c)		2.11	29.82	0.416	0.522	0.465	0.11	0.415	0.042	0.022	1.11	0.045	0.255	
	(d)		2.37	12.08	1.13	0.735	0.846	0.215	0.541	0.05	0.021	0.823	0.023	0.149	
	(e)		2.95	15.93	0.651	0.927	2.17	0.377	0.881	0.133	0.043	0.746	0.089	0.107	
	(f)		3.4	19.09	0.745	1.95	3.53	0.389	2	0.247	0.107	1.37	0.136	0.617	
BAS-CRRM1/1	(a)	RM	High Chromium Irons, 40x37x10 mm												block
BAS-CRRM2/1	(b)	RM	High Chromium Irons, 40x37x10 mm												block
BAS-CRRM3/1	(c)	RM	High Chromium Irons, 40x37x10 mm												block
BAS-CRRM4/1	(d)	RM	High Chromium Irons, 40x37x10 mm												block
BAS-CRRM5/1	(e)	RM	High Chromium Irons, 40x37x10 mm												block
			Al	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ti	V	
	(a)		0.117	1.83	11.18	2.01	1.45	3.05	2.03	0.132	0.099	1.53	0.096	0.04	
	(b)		0.054	1.92	14.13	1.59	1.11	2.44	1.61	0.097	0.079	1.18	0.07	0.063	
	(c)		0.084	2.42	17.48	1.21	0.85	1.65	1.28	0.068	0.059	0.82	0.021	0.022	
	(d)		<0.005	3	22.42	0.58	0.6	1.19	0.62	0.044	0.039	0.56	0.027	0.092	
	(e)		0.17	3.46	29.09	0.23	0.32	0.54	0.29	0.029	0.019	0.25	0.026	0.063	
VS-CHG1-5	(a)	CRM	Cast Iron (Chill cast; white structure) approx. ø40x40mm												disc
VS-CHG4-5	(b)	CRM	Cast Iron (Chill cast; white structure) approx. ø40x40mm												disc
VS-CHG5-6	(c)	CRM	Cast Iron (Chill cast; white structure) approx. ø40x40mm												disc
			As	C	Cr	Cu	Mn	P	S	Si	Ti	V			
	(a)	(0.002)	3.38	(0.08)	(0.04)	1.09	0.16	0.029	1.04	0.005	0.05				
	(b)	(0.002)	4.06	0.14	0.025	1.37	0.02	0.015	0.26	0.056	0.112				
	(c)	0.044	3.12	0.227		0.7	0.066	0.022	0.63	0.029	0.46				

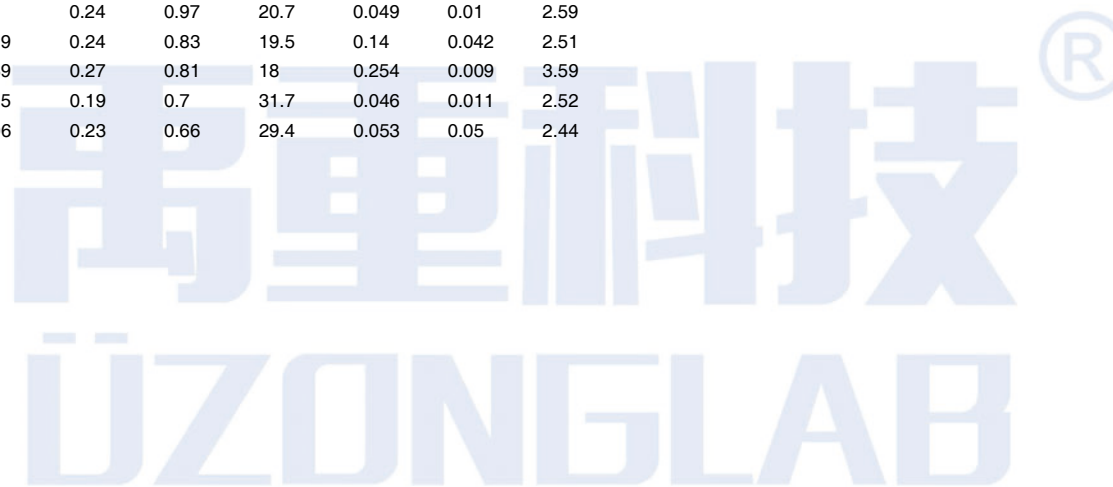
铸铁合金样品

Code	Product																Unit		
VS-CHG24	(a)	CRM	Cast Iron (Chill cast; white structure) approx. 30x35x25mm																disc
VS-CHG25	(b)	CRM	Cast Iron (Chill cast; white structure) approx. 30x35x25mm																disc
VS-CHG26	(c)	CRM	Cast Iron (Chill cast; white structure) approx. 30x35x25mm																disc
VS-CHG27	(d)	CRM	Cast Iron (Chill cast; white structure) approx. 30x35x25mm																disc
VS-CHG28	(e)	CRM	Cast Iron (Chill cast; white structure) approx. 30x35x25mm																disc
			Al	C	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Sb	Si	Sn	Ti	V		
	(a)		0.007	3.05	0.031	0.1	0.015	0.245	0.031	0.87	0.26	0.0048	0.009	2.5	0.077	0.06	0.0067		
	(b)		0.009	3.74	0.25	0.79	0.037	0.68	0.253	0.38	0.009	0.0035	0.052	1.46	0.017	0.017	0.086		
	(c)		0.038		0.05	0.014	0.044	0.126	0.075	1.52	0.123	0.0041		2.98	0.031	0.0026	0.04		
	(d)		0.008	3.53	0.162	0.348		1.21	0.147	0.022	0.044	0.029	0.029	1.82	0.115	0.056	0.16		
	(e)		0.015	3.29	0.127	1.29	0.01	0.414	0.0024	0.166	0.025	0.015	0.015	2.22	0.0017	0.0041	0.002		
VS-CHG35	(a)	CRM	Cast Iron (Chill cast; white structure) approx. ø35x40mm																disc
VS-CHG36	(b)	CRM	Cast Iron (Chill cast; white structure) approx. ø35x40mm																disc
VS-CHG37	(c)	CRM	Cast Iron (Chill cast; white structure) approx. ø35x40mm																disc
VS-CHG38	(d)	CRM	Cast Iron (Chill cast; white structure) approx. ø35x40mm																disc
VS-CHG39	(e)	CRM	Cast Iron (Chill cast; white structure) approx. ø35x40mm																disc
VS-CHG40	(f)	CRM	Cast Iron (Chill cast; white structure) approx. ø35x40mm																disc
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ti	V						
	(a)		3.34	0.233	0.09	1.23	0.027	2.15	0.102	0.021	0.617	0.022	0.043						
	(b)		2.94	0.476	0.7	0.454	0.406	0.542	0.232	0.036	1.5	0.027	0.086						
	(c)		2.49	0.82	0.512	0.92	0.55	0.9	0.038	0.046	2.03	0.092	0.227						
	(d)		2.43	1.98	1.2	0.302	0.046	0.162	0.386	0.084	2.3	0.105	0.119						
	(e)		3.01	1.08	0.414	0.82	0.113	1.09	0.304	0.088	1.45	0.168	0.274						
	(f)		2.59	1.47	0.98	1.56	0.229	1.61	0.059	0.019	1.6	0.18	0.325						
BS-285	(a)	CRM	Cast Iron, ø28x28 mm																disc
			B	C	Co	Cr	Cu	Mg	Mn	Mo	N	Ni	P	Pb	S	Sb	Si	Sn	Ti
	(a)		0.0048	3.21	0.0099	1.09	0.302	0.043	0.706	0.227	0.0025	1.33	0.044	0.0121	0.009	0.184	1.98	0.025	0.053
			V	W															
	(a)		0.129	0.066															

Code	Product																		Unit
MBH-11X 0331.1 H	(a)	CRM	Corrosion Resistant Iron, ø40x13 mm																disc
MBH-11X 0331.3 F	(b)	CRM	Corrosion Resistant Iron, ø40x13 mm																disc
MBH-11X 0331.5 C	(c)	CRM	Corrosion Resistant Iron, ø40x13 mm																disc
MBH-11X 0331.6 A	(d)	CRM	Corrosion Resistant Iron, ø35x6 mm																disc
			Al	C	Co	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Si	Sn	Ti	V	Zr	
	(a)		(0.03)	2.831	0.154	2.022	7.68	1.353	0.111	13.75	0.111	0.03	0.137	2.1	0.048	0.094			
	(b)		0.055	2.1		2.57	6.49	1.08	0.061	18.03	0.04	0.0112	0.061	2.46	0.0091				
	(c)		0.018	2.73		0.582	7.74	0.893	0.117	14.52	0.164	0.0056	0.217	2.93	0.121				
	(d)			2.71		1.13	6.57	1.144	0.011	14.03	0.0473	(0.0006)	0.0197	2.05	(0.002)	0.025	0.0106	<0.005	
MBH-11X 15294 T	(a)	CRM	Iron with Chrome, ø40x17 mm																disc
MBH-11X 15295 P	(b)	CRM	Iron with Chrome, ø40x17 mm																disc
MBH-11X 15309 R	(c)	RM	Iron with Chrome, ø40x15 mm																disc
MBH-11X 20001 J	(d)	RM	Corrosion Resistant Iron, ø40x15 mm																disc
MBH-11X 20002 J	(e)	RM	Corrosion Resistant Iron, ø40x15 mm																disc
MBH-11X 20003 K	(f)	RM	Corrosion Resistant Iron, ø40x15 mm																disc
MBH-11X AR5 J	(g)	CRM	Abrasion Resistant Iron, ø40x15 mm																disc
			Al	C	Co	Cr	Cu	Mn	Mo	Nb	Ni	P	Pb	S	Si	Sn	Ti	V	W
	(a)			2.25	0.179	29.32	0.126	0.551	0.63		1.84	0.1	0.0067	0.05	0.409	0.07		0.124	0.45
	(b)			2.285	0.542	24.87	0.238	1.01	0.518		0.35	0.085	(0.01)	0.094	1.057	(0.045)		0.144	(0.2)
	(c)			3.273	0.068	23.3	1.142	1.196	0.982		2.05	0.034		0.011	0.562			0.096	(0.057)
	(d)			2.9		1.5	0.01	0.58			21.4	0.005		0.143	1.01				
	(e)			2.67			2.03	0.3	1.06		20	0.06		0.045	2.04				
	(f)			2.91			2.53	0.52	1.53		17.8	0.174		0.007	3.03				
(g)	(0.018)		3.1			9.73	0.032	0.57	0.12	0.03	5.16	0.0299	(0.003)	0.0316	1.7		0.0147	0.0586	

铸铁合金样品

Code	Product								Unit	
MBH-11X S/2 CR1 E(a)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
MBH-11X S/2 CR2 D(b)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
MBH-11X S/2 CR4 D(c)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
MBH-11X S/2 CR5 D(d)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
MBH-11X S/2 CR6 D(e)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
MBH-11X S/3 CR1 D(f)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
MBH-11X S/3 CR3 B(g)	RM	Corrosion Resistant Iron, ø40x15 mm								disc
		C	Cr	Cu	Mn	Ni	P	S	Si	
(a)		2.83	2.48	0.02	1.68	16.5	0.31	0.011	2.85	
(b)		3.03	2.35	0.23	0.53	18	0.14	0.046	1.23	
(c)		2.82	1.1	0.24	0.97	20.7	0.049	0.01	2.59	
(d)		3.01	3.99	0.24	0.83	19.5	0.14	0.042	2.51	
(e)		2.65	4.39	0.27	0.81	18	0.254	0.009	3.59	
(f)		2.61	0.15	0.19	0.7	31.7	0.046	0.011	2.52	
(g)		2.49	4.06	0.23	0.66	29.4	0.053	0.05	2.44	



球墨铸铁样品

Code	Product																		Unit
CKD-251	(a)	CRM	Cast Iron, aust., nod., 38x38x23 mm																block
CKD-253	(b)	CRM	Cast Iron, aust., nod., 38x38x23 mm																block
CKD-254	(c)	CRM	Cast Iron, aust., nod., 38x38x23 mm																block
			Al	C	Ce	Co	Cr	Cu	Mg	Mn	Mo	Nb	Ni	P	Pb	S	Si	Sn	Ti
	(a)		(0.02)	2.25	0.017	0.09	1.07	0.38	0.022	1.97	0.12	0.1	19.7	0.015	(0.009)	0.015	1.14	(0.01)	(0.005)
	(b)		(0.035)	2.45	0.018	0.105	2.95	0.29	0.038	0.74	0.01		23.6	0.059		0.008	2.28	(0.005)	(0.005)
	(c)		(0.05)	2.78	0.039	0.06	0.24	0.11	0.058	4.5	0.41	0.26	14.3	0.043	(0.012)	0.018	2.6	(0.02)	(0.005)
			V																
	(a)		(0.02)																
	(b)		(0.02)																
	(c)		(0.005)																
SEI-KTC-10 M-1	(a)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 5 only)																disc
SEI-KTC-10 M-2	(b)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 5 only)																disc
SEI-KTC-10 M-3	(c)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 5 only)																disc
SEI-KTC-10 M-4	(d)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 5 only)																disc
SEI-KTC-10 M-5	(e)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 5 only)																disc
			C	Mg	Mn	P	S	Si											
	(a)		3.4	0.05	0.1	0.015	0.002	2.5											
	(b)		3.4	0.04	0.1	0.015	0.002	2.5											
	(c)		3.4	0.03	0.1	0.015	0.002	2.5											
	(d)		3.4	0.02	0.1	0.015	0.002	2.5											
	(e)		3.4	0.01	0.1	0.015	0.002	2.5											

球墨铸铁样品

Code	Product																		Unit
SEI-KTC-11 D-1A	(a)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-2A	(b)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-3A	(c)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-4A	(d)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-5A	(e)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-6A	(f)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-7A	(g)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-8A	(h)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-9A	(i)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
SEI-KTC-11 D-10A	(j)	CRM	Ductile Cast Iron, Ø34x5mm (Set of 10 only)																disc
			Al	B	Bi	C	Ca	Ce	Cr	Cu	Mg	Mn	Mo	Ni	P	Pb	S	Sb	Si
	(a)		0.087	0.028		3.20		0.035		0.19	0.046	0.13	0.11		0.028	0.001	0.005	0.062	3.31
	(b)		0.074	0.055		3.47		0.011		0.04	0.053	0.50	0.22	0.41	0.016		0.001	0.094	2.99
	(c)		0.012	0.010		3.60					0.022	0.42	0.45	0.31	0.033		0.017	0.024	2.22
	(d)		0.053	0.12		3.19	0.0018	0.008	0.21		0.048	0.71	0.021	0.34	0.020	0.004	0.006	0.009	2.71
	(e)		0.013	0.001	0.001	3.78	0.0005		0.02		0.020	0.24	0.32		0.044	0.007	0.014	0.16	2.47
	(f)		0.007		0.005	3.93	0.0005		0.31	0.31	0.015	0.37		0.10	0.071	0.016	0.033	1.64	
	(g)		0.014		0.011	3.99				0.11	0.013	0.29	0.062	0.21	0.060	0.009	0.021	2.02	
	(h)		0.11		0.005	2.98		0.064	0.29	0.52	0.021	0.20	0.008	0.01	0.050	0.009	0.037	0.21	2.87
	(i)		0.10			3.20	0.0030	0.092	0.11	0.01	0.007	0.84	0.004		0.004	0.037	0.014	2.48	
	(j)		0.029	0.087	0.003	2.79	0.0035		0.40	0.40	0.003	0.02			0.008	0.026	0.011	2.40	
			Sn	Ti	V	Zn													
	(a)				0.10	0.009													
	(b)		0.004	0.010	0.20	0.002													
	(c)		0.014	0.24		0.018													
	(d)		0.44		0.25														
	(e)			0.18		0.029													
	(f)		0.054	0.047	0.15														
	(g)			0.12	0.055	(0.051)													
	(h)		0.30		0.009														
	(i)		0.20		0.37														
	(j)		0.089		0.003														

Code	Product																Unit
NIST-C1137A	(b)	CRM	White Cast Iron, ø32x19mm														disc
NIST-C2423A	(c)	CRM	Ductile Iron B, ø32x19mm														disc
NIST-C2424	(d)	CRM	Ductile Iron C, ø32x19mm														disc
		Al	B	C	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	Nb	Ni	P	S	Sb
	(b)	(0.007)		2.86	0.016		0.643	0.192		0.032	0.52	0.86		2.17	0.087	0.017	1.15
	(c)	(0.08)	(0.01)	3.66	0.031	(0.02)	0.322	1.61	0.0042	0.076	0.91	0.159		0.147	0.246	(<0.001)	1.59
	(d)	(<0.01)	(0.002)	2.68	0.0046	(0.05)	0.13	0.125	0.0011	0.006	0.268	0.019		0.061	0.041	0.024	3.37
		Sn	Te	Ti	V												
	(b)			(0.04)	0.019												
	(c)			0.1	0.043												
	(d)			0.05	0.083												

禹重科技®

ÜZONGLAB

复合合金铸铁样品

Code	Product																			Unit
BS-CC9	(a)	RM	Cast Iron, complex alloyed, ø33x19 mm																	disc
BS-CC10	(b)	RM	Cast Iron, complex alloyed, ø33x19 mm																	disc
BS-CC11	(c)	RM	Cast Iron, complex alloyed, ø33x19 mm																	disc
BS-CC13	(d)	RM	Cast Iron, complex alloyed, ø33x19 mm																	disc
BS-CC14	(e)	RM	Cast Iron, complex alloyed, ø33x19 mm																	disc
BS-CC16	(f)	RM	Cast Iron, complex alloyed, ø33x19 mm																	disc
			Al	As	B	Bi	C	Ca	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	Ni	P	Pb	
	(a)		0.027	0.056	0.025	(0.002)	2.97	0.0003	(0.0003)	0.086	0.095	1.21	0.0012	0.0005	2.04	0.21	0.34	0.028	0.0011	
	(b)		0.033	0.007	0.011	(0.0002)	2.96	0.0001	(0.0003)	0.059	0.113	0.23	(0.0002)	0.0006	1.76	0.46	0.52	0.023	0.0007	
	(c)		0.029	0.006	0.0012	(<0.0005)	3	0.0002	(0.001)	0.021	0.06	0.14	(0.001)	(0.013)	1.18	0.011	0.064	0.022	0.0007	
	(d)		0.089	(0.002)	(0.0004)	0.009	(3.82)	(0.0008)	0.0018	0.033	0.57	0.088	(0.0007)	0.016	0.16	1.19	1.6	0.019	0.0002	
	(e)		0.006	(<0.001)	(0.0003)	(<0.0005)	(4.04)	0.0011	(0.002)	0.036	0.031	0.021	(0.0007)	(0.024)	(0.01)	(0.003)	0.074	0.016	0.0002	
	(f)		(0.004)	(0.005)	0.0005	(0.007)	(2.67)	(0.0001)	(0.0004)	0.017	0.91	0.11	(0.0001)	(0.0004)	0.39	1.33	1.94	0.1	0.0002	
			S	Sb	Si	Sn	Te	Ti	V	W	Zr									
	(a)		0.068	0.14	2.29	0.094	(0.004)	(0.11)	0.31	(0.008)	0.004									
	(b)		0.074	0.152	2.02	0.013	(0.002)	0.15	0.047	(0.006)	(0.003)									
	(c)		(0.024)	0.14	1.92	0.045	(0.002)	0.011	0.016	(0.002)	(0.002)									
	(d)		0.006	(0.0006)	1.05	0.03	0.004	0.014	0.023	(0.006)	(0.001)									
	(e)		0.003	(0.001)	0.64	0.002	0.005	0.004	0.021	(0.003)	(0.002)									
	(f)		0.045	(0.001)	3.57	0.005	0.006	0.017	0.014	(0.004)	(0.002)									
BS-CC21	(a)	CRM	Cast Iron, complex alloyed, ø32x17 mm																	disc
BS-CC22	(b)	RM	Cast Iron, complex alloyed, ø32x17 mm																	disc
BS-CC23	(c)	RM	Cast Iron, complex alloyed, ø32x17 mm																	disc
			Al	As	B	C	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	N	Nb	Ni	P	Pb	
	(a)		0.032	0.045	0.02	2.66	<0.002	0.012	2.68	0.013	<0.002	0.0005	1.37	0.13	(0.0013)	(0.001)	0.026	0.85	0.004	
	(b)		0.006	0.091	0.044	2.88	<0.002	0.01	0.98	0.34	<0.002	<0.001	1.84	0.022	(0.012)	0.013	0.151	0.274	0.001	
	(c)		0.059	0.017	0.066	2.96	<0.002	0.09	0.47	0.31	<0.002	<0.001	0.74	0.265	(0.008)	<0.003	0.56	0.53	0.008	
			S	Sb	Si	Sn	Te	Ti	V	W	Zr									
	(a)		0.006	(0.004)	2.32	0.006	(0.009)	0.085	0.051	<0.002	0.025									
	(b)		0.16	0.059	0.74	0.079	0.034	0.012	0.25	0.012	0.026									
	(c)		0.082	0.17	0.43	0.052	0.033	0.091	0.197	<0.01	0.06									

灰口铸铁样品

Code	Product															Unit	
BS-20A	(a)	RM	Cast Iron - Gray, ø38x12 mm													disc	
BS-20B	(b)	RM	Cast Iron - Gray, ø40x10 mm													disc	
BS-20E	(c)	RM	Cast Iron - Gray, ø47x13 mm													disc	
BS-20G	(d)	RM	Cast Iron - Gray, ø47x13 mm													disc	
BS-20K	(e)	RM	Cast Iron - Gray, ø50x13 mm													disc	
BS-20P	(f)	RM	Cast Iron - Gray, ø44x13 mm													disc	
BS-20R	(g)	RM	Cast Iron - Gray, ø47x13 mm													disc	
BS-20W	(h)	RM	Cast Iron - Gray, ø47x13 mm													disc	
			Al	As	C	Co	Cr	Cu	Mn	Mo	Ni	P	S	Si	Sn	Ti	V
	(a)				3.33		0.034	0.54	0.75	0.18	0.06	0.04	0.029	2.8	0.1	0.033	
	(b)				2.98		0.075	0.1	0.84	0.031	0.22	0.08	0.029	1.79	<0.005	0.042	
	(c)	0.006	(0.003)		3.24	0.006	0.088	0.23	0.8	0.042	0.156	0.042	0.044	2.29	0.093	0.017	0.007
	(d)	0.008	0.004		3.33	0.022	0.086	0.54	0.58	0.19	0.38	0.028	0.029	3.02	0.12	0.012	0.018
	(e)	0.004	0.004		3.21	0.013	0.117	0.56	0.68	0.21	0.28	0.06	0.025	2.47	0.058	0.019	0.013
	(f)	0.008	(0.004)		3.22	0.018	0.079	0.067	0.63	0.033	0.14	0.032	0.044	2.62	0.099	0.018	0.017
	(g)	0.005	0.004		3.25	0.006	0.094	0.35	0.62	0.053	0.096	0.047	0.034	2.72	0.104	0.015	0.007
	(h)	0.04	0.004		3.27	0.005	0.092	0.29	0.62	0.054	0.082	0.045	0.036	2.64	0.086	0.015	0.007

这些样品包含游离的石墨。为了规范分析，发射光谱（电弧/电火花）用户可能需要额外的预燃时间。

我们会持续扩充新的产品，所以请您联系我们以获取新的产品以及服务，并确保您已订阅了我们的免费时事通讯，并保持自动更新。

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电邮：info@uzong.cn

电话：400 808 4598 021-54305890



SUS 样品 盘状及块状固体样品

重科技®
UZONGLAB



Excellence through measurement

Sample Grinder HK150EXS

Manual pendulum grinder with steel cabinet and integrated spark trap and dust exhauster

Grinding Machine

HK150EXS

- Clean, powerful sample grinding system with stone – ready to go
- Floor standing machine, dustproof, covered working place, halogen spotlight
- Steel cabinet with switch board, dust trap, exhauster and drawer
- Reproducible flat surface, easily operated pendulum arm in taper bearings
- Simple and reliable machine construction
- Specially suitable for hard materials, like white cast irons
- Adaptable to various qualities by special stone cup wheels
- Vertical moving of grinding head by handwheel with 0.1 mm scale



Technical Data and Accessory

Technical Data

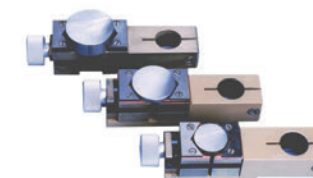
Grinder motor	3 x 400 V/50 Hz, 1.1 kW alt.: 1 x 220 V/60 Hz alt.: 3 x 220 V/60 Hz
Revolutions	2800 rpm/3440 rpm
Lighting	12 V/20 W halogen
Grinding stone	150 x 80 x 32 mm
Grinding height, min.	4 mm
Grinding height, max.	90 mm
Mass (grinder)	approx. 100 kg
Mass (cabinet)	approx. 50 kg
Dimensions (grinder)	400 x 400 x 680 mm
Dimensions (cabinet)	600 x 600 x 870 mm



Cup wheel, open corundum stone



Magnetic plate with quick exchange arm



Vices for different sample diameters

Standard Accessory

Vice for sample holding
Grinding stone, tool for stone change
Dressing bar for grinding stone
Transport handles

Optional Accessory

Magnetic vice with handle and quick exchange arm
Special vices – bigger vice for max. diam. 58 mm
Hardened vice jaws: 3 mm, 9 mm (regular) and 20 mm
Copper cooling blocks
Corundum/silicon carbide cup wheels 150 x 80 x 32 mm
Filter bags/exhauster motor protection filter
Spare parts kit: 2 bellows, safety glass, halogen lamp

Breitländer – Part of LGC Standards GmbH
Mercatorstr. 51, 46485 Wesel, Deutschland
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Fax: +49 (0)281 319 391 29
E-Mail: mail@breitlander.com



www.lgcstandards.com • www.breitlander.com



Excellence through measurement

铸铁 SUS 样品

Code	Product																			Unit
SUS-CFE5+	(a)	SUS	Pig Iron, Check Sample, ø35-40x30 mm																	disc
SUS-CFE6+	(b)	SUS	Cast Iron, grey, Check Sample, ø40x50 mm																	disc
SUS-CFE7+	(c)	SUS	Grey Cast Iron, Check Sample, ø40x50mm																	disc
SUS-CFE8+	(d)	SUS	Cast Iron, Check Sample, ø37-40x30 mm																	disc
SUS-RG13+	(e)	SUS	Cast Iron without Mg, ø38x40 mm																	disc
SUS-RG14+	(f)	SUS	Cast Iron with Mg, ø38x40 mm																	disc
SUS-RG15+	(g)	SUS	Cast Iron without Mg, ø38x40 mm																	disc
SUS-RG16+	(h)	SUS	Cast Iron with Mg, ø36x36 mm																	disc
			Al	As	B	C	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	Nb	Ni	P	Pb	S	
	(a)		0.05			4.1			0.1	0.01			0.2	0.03	<0.002	0.02	0.05	0.04		
	(b)		0.004			(3.3)			0.03	0.8			0.7	<0.01		0.03	0.04	0.03		
	(c)		0.015			(3.7)			0.03	0.14			0.07	<0.01		0.05	0.015	<0.001	0.005	
	(d)		0.03	0.002	0.02	3.2		0.009	0.05	0.06			0.4	0.01	0.001	0.03	0.02	0.02		
	(e)		0.03			3		0.01	1	0.5			1	0.3	<0.01	0.6	0.5	<0.001	0.05	
	(f)		0.03		0.02	3.5	0.03		1	0.07	<0.01	0.04	0.2			0.8	0.05	<0.01		
	(g)		0.03			2.2			0.6	0.02			0.8	0.8		0.5	0.3	0.11		
	(h)		0.03		0.02	3.7	0.02		1	0.1	<0.01	0.05	0.2			0.8	0.2	0.006		
			Si	Sn	Te	Ti	V	W	Zr											
	(a)		0.6	<0.003		0.04	0.2													
	(b)		2.6	0.002		0.02	0.007													
	(c)		3.1	0.003		0.01	0.018													
	(d)		1.1	0.003	0.02	0.01	0.01	0.009	0.0002											
	(e)		2	0.2		0.04	0.3	0.01												
	(f)		2.3	0.2		0.04	0.16													
	(g)		3.8	0.1																
	(h)		2.4	0.2	0.004	0.05	0.18													

铸铁 SUS 样品

Code	Product																		Unit
SEI-KTC-13 A	(a)	SUS	Cast Iron ø34x5mm (Set of 10 only)																disc
SEI-KTC-13 B	(b)	SUS	Cast Iron ø34x5mm (Set of 10 only)																disc
SEI-KTC-13 C	(c)	SUS	Cast Iron ø35x20mm (Set of 10 only)																disc
			Al	B	Bi	C	Ca	Cr	Cu	Mg	Mn	Mo	Ni	P	Pb	S	Sb	Si	Sn
	(a)					3.5				0.055	0.1			(<0.02)		(<0.01)		2.5	
	(b)		(<0.01)	0.1	(<0.01)	2.1	(<0.001)	0.5	0.55		0.05	0.3	0.01	0.7	0.01	0.06	0.2	3.0	0.3
	(c)		0.1	(<0.01)	0.02	0.2	0.003	0.01	0.01		0.8	(<0.01)	0.5	(<0.01)	0.05	(<0.01)	0.01	0.5	(<0.01)
			Ti	V	Zn														
	(a)		(<0.01)																
	(b)			(<0.01)	(<0.01)														
	(c)		0.3	0.3	0.06														
SEI-KTC-14 D	(a)	SUS	Alloy Cast Iron ø34x5mm (Set of 10 only)																disc
SEI-KTC-14 E	(b)	SUS	Alloy Cast Iron ø34x5mm (Set of 10 only)																disc
SEI-KTC-14 F	(c)	SUS	Alloy Cast Iron ø34x5mm (Set of 10 only)																disc
			C	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Si							
	(a)		3.4			0.05	0.1			0.015		2.5							
	(b)		2.4	1.0	0.05	(<0.01)	0.05	0.05	1.0	0.005	0.10	3.0							
	(c)		4.0	0.05	1.0		1.0	1.0	0.05	0.12	0.005	1.0							
SEI-KTC-16 A-20	(a)	SUS	N for standardization ø35x20mm (Set of 4 only)																disc
SEI-KTC-16 B-20	(b)	SUS	N for standardization ø35x20mm (Set of 4 only)																disc
			C	Cr	Cu	Mn	Mo	N	Ni	P	S	Si							
	(a)		0.05	3.80	0.01	0.01	0.01	0.033	0.01	0.002	0.002	0.03							
	(b)		0.01	0.01	0.01	0.01	0.01	0.0015	0.01	0.001	0.002	0.01							
BS-SUCCC+	(a)	SUS	Cast Iron, SUS, ø33-35x17 mm																disc
BS-SUCCD+	(b)	SUS	Cast Iron, SUS, ø33-35x17 mm																disc
			Al	As	C	Ca	Co	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Si	Sn	Ti	V
	(a)		0.013	0.001	3.47	0.002	0.021	0.032	0.024	0.03	0.071	0.006	0.03	0.029	0.01	1.79	0.003	0.003	0.007
	(b)		0.015	0.001	3.28	0.0027	0.009	0.03	0.05	0.032	0.59	0.002	0.02	0.02	0.008	2.53	0.002	0.006	0.014

Code	Product																		Unit
NCS AH11345	(a)	SUS	Cast Iron, SUS, ø28x20 mm																disc
NCS AH11346	(b)	SUS	Cast Iron, SUS, ø28x20 mm																disc
NCS AH11347	(c)	SUS	Cast Iron, SUS, ø28x20 mm																disc
NCS AH11348	(d)	SUS	Cast Iron, SUS, ø28x20 mm																disc
NCS AH11349	(e)	SUS	Cast Iron, SUS, ø28x20 mm																disc
NCS AH11350	(f)	SUS	Cast Iron, SUS, ø28x20 mm																disc
NCS AH93301	(g)	SUS	Cast Iron, SUS, ø30x30 mm																disc
			Al	As	B	C	Co	Cr	Cu	Mn	Mo	Nb	Ni	P	Pb	S	Sb	Si	Sn
	(a)		0.017	0.037	0.008	2.06	0.006	0.159	0.322	1.2	0.097	0.147	0.151	0.041	0.006	0.041	0.064	2.94	0.066
	(b)		0.028	0.023	0.019	2.53	0.008	1.06	1.5	0.85	0.223	0.067	0.255	0.17	0.007	0.033	0.025	2.48	0.027
	(c)		0.011	0.014	0.049	3.01	0.012	0.276	0.83	0.681	0.319	0.11	0.592	0.37	0.004	0.064	0.065	1.98	0.06
	(d)		0.004	0.009	0.024	3.28	0.009	0.462	1.13	0.873	0.245	0.119	0.451	0.074	0.0005	0.078	0.031	1.6	0.049
	(e)		0.012	0.027	0.077	3.66	0.009	0.488	0.63	0.465	0.99	0.103	1.31	0.56	0.002	0.064	0.038	1.2	0.096
	(f)		0.02	0.002	0.041	4.3	0.01	2.19	0.49	0.241	0.428	0.08	1.02	0.044	0.003	0.13	0.13	1.2	0.021
	(g)				0.0039	1.89		3	1.96	2.13	0.017	0.499	0.074	0.043		0.1	0.0021	3.5	
			Ti	V	W														
	(a)		0.032	0.058	0.279														
	(b)		0.161	0.136	0.188														
	(c)		0.111	0.3	0.44														
	(d)		0.094	0.15	0.11														
	(e)		0.22	0.049	0.055														
	(f)		0.154	0.579	0.72														
	(g)		0.247	0.027	0.044														

铸铁 SUS 样品

Code	Product																		Unit		
BAS-SUS1	(a)	SUS	Low Phosphorus Iron, 60x35x18 mm																		block
BAS-SUS2	(b)	SUS	Medium Phosphorus Iron, 60x35x18 mm																		block
BAS-SUS3	(c)	SUS	High Phosphorus Iron, 60x35x18 mm																		block
BAS-SUS4	(d)	SUS	Ductile (Nodular) Iron, 60x35x18 mm																		block
BAS-SUS5	(e)	SUS	Ductile (Nodular) Iron, 60x35x18 mm																		block
BAS-SUS6	(f)	SUS	Malleable Iron, 60x35x18 mm																		block
BAS-SUS7	(g)	SUS	Malleable Iron, 60x35x18 mm																		block
			Al	As	B	Bi	C	Ce	Cr	Cu	Mg	Mn	Mo	Ni	P	S	Sb	Si	Sn		
	(a)		0.02				3.1		0.48	0.47		0.4	0.32	0.2	0.05	0.06		2.5	0.05		
	(b)		<0.005				3.6		0.07	0.2		0.72	0.1	0.48	0.19	0.14		1.7	0.1		
	(c)		<0.005				3.3		0.26	0.03		0.92	<0.005	0.03	1	0.1		2.2	<0.005		
	(d)		0.01	0.07			3.3		0.09	0.74	0.02	0.12		0.09		0.01	<0.005	2.6	<0.005		
	(e)		0.04	0.005			3.9	0.03	0.03	<0.005	0.09	0.66		1		0.008	0.04	2	0.07		
	(f)		<0.005		<0.001	0.01	2.5		0.1	0.02		0.65			0.05	0.12		1.8	0.05		
	(g)		0.02		0.004	<0.001	2.8		0.07	0.21		0.29			0.09	0.18		0.94	<0.01		
			Ti	V																	
	(a)		<0.005	0.04																	
	(b)		0.06	0.51																	
	(c)		0.12	0.3																	
	(d)		0.06	0.51																	
	(e)		<0.005	0.5																	
	(f)		0.02	0.02																	
	(g)		0.06	0.06																	
CKD-T+	(a)	SUS	Cast Iron, SUS, 40x40x21 mm																		block
CKD-U2+	(b)	SUS	Cast Iron, SUS, 40x40x21 mm																		block
			Al	As	B	Bi	C	Co	Cr	Cu	Mn	Mo	Nb	Ni	P	Pb	S	Sb	Se		
	(a)			0.03			2.8	0.05	0.1	0.3	1.3	0.2		0.2	0.15		0.18	0.1			
	(b)		0.025	0.03	0.008	0.01	3.41	0.012	0.69	0.49	1.16	1.15	0.014	0.57	0.42	0.011	0.099	0.022	0.014		
			Si	Sn	Te	Ti	V	W	Zn	Zr											
	(a)		1.6	0.04	0.02	0.05	0.05			0.01											
	(b)		2.18	0.052	0.017	0.052	0.21	0.002	0.016												
IARM-215A+	(a)	SUS	Cast Iron, SUS, ø31x18.75 mm																		disc
IARM-216A+	(b)	SUS	Cast Iron, SUS, QA22, ø31x18.75 mm																		disc
			Al	As	B	Bi	C	Co	Cr	Cu	Mg	Mn	Mo	Nb	Ni	P	Pb	S	Sb		
	(a)		0.037				3.5		0.6	0.6		1.3	0.5		0.9	0.3		0.13			
	(b)		0.06	0.03	0.037	0.004	3	0.6	1.5	0.08	0.08	0.3	0.004	0.3	2	0.026	0.005	0.001	0.06		
			Si	Sn	Ti	V	W	Zn	Zr												
	(a)		2.1	0.17	0.07	0.5															
	(b)		3	0.04	0.007	0.03	0.043	0.01	0.05												



碎屑及粉末样品

重科技®
UZONGLAB



Excellence through measurement

Moulds for Iron and Non-Ferrous Metal Samples



Casting of your own samples for spectrometric analysis requires different moulds, depending on alloy type and further handling.

There are different moulds that have been tested under practical working conditions.

Our product range comprises one special mould for cast iron, a modification for pig iron samples releasing robot compatible samples and a number of various classical copper moulds for different metals.

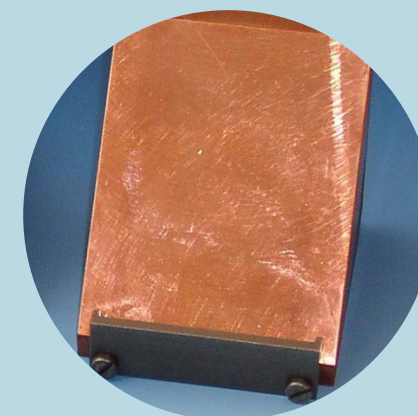
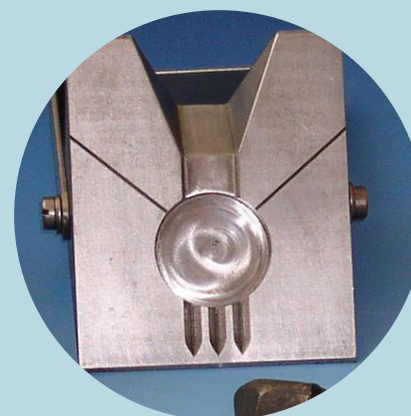
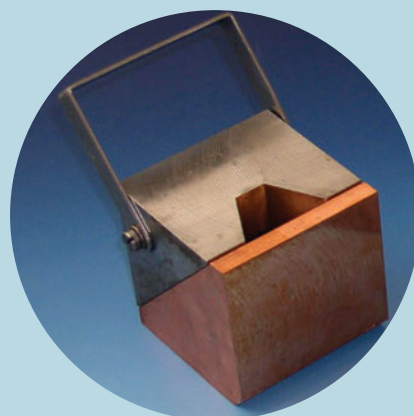
Special Mould for Grey and Nodular Cast Iron BR 150

Mould with 45° casting angle in combined steel/copper construction

- Mould form from steel, casting on copper block ensures unidirectional chill cast solidification on the analytical side of the sample only
- Spectro sample and pins for analysis of C + S simultaneously from same sample cast
- Pin samples of about 0.4 g each to be broken off easily and ready for analysis
- Most simple mounting for tight joining by putting mould form on copper block, no mechanism, no moving parts, self locking
- Copper block designed as flat surface block, enabling easy resurfacing and thus giving extended life time of mould
- Standard size of sample: Ø 34-36 x 5 mm

Special Mould for Pig Iron BR 150/RE

This special mould, intended for casting pig iron samples directly after the blast furnace, is made completely from copper. Pig iron coming from the blast furnace is hotter than regular cast iron, this mould enables rapid cooling for white structure and avoids semi-welding of sample at the regular steel mould form. The big handle is support for the casting ladle and the robust construction is designed to be fixed on a solid steel beam for protection in rough working environment. The sample dimension is: 34 mm diameter with side wall 10 mm high for robot grip tongs.



铸铁碎屑样品

Code	Product			Unit
AR-300	(a)	CRM	Cast Iron	150 g
AR-301	(b)	CRM	Cast Iron	150 g
AR-302	(c)	CRM	Gray Iron	150 g
AR-304	(d)	CRM	Ductile Iron	150 g
AR-305	(e)	CRM	Malleable Iron	150 g
AR-309	(f)	CRM	Nodular Iron	150 g
AR-310	(g)	CRM	Cast Iron	150 g
AR-315	(h)	CRM	Cast Iron, shot	150 g
AR-318	(i)	CRM	Cast Iron	150 g
AR-319	(j)	CRM	Cast Iron	150 g
AR-322	(k)	CRM	Cast Iron	250 g
AR-323	(l)	CRM	Pig Iron	250 g
		C	S	
	(a)	3.32	0.014	
	(b)	2.07	0.010	
	(c)	3.29	0.046	
	(d)	4.23		
	(e)	2.75	0.015	
	(f)	3.71	0.021	
	(g)	3.38	0.086	
	(h)	3.09	0.111	
	(i)	3.08	0.037	
	(j)	3.28	0.055	
	(k)	3.37	0.046	
	(l)	3.84	0.064	

铸铁碎屑样品

Code	Product										Unit							
NCS HC11003	(a)	CRM	Cast Iron								100 g							
NCS HC11003A	(b)	CRM	Cast Iron								100 g							
NCS HC11003B	(c)	CRM	Cast Iron								100 g							
NCS HC11004	(d)	CRM	Cast Iron								100 g							
NCS HC11005	(e)	CRM	Cast Iron								100 g							
NCS HC11006	(f)	CRM	Cast Iron								100 g							
NCS HC11007	(g)	CRM	Pig Iron								100 g							
NCS HC11008	(h)	CRM	Pig Iron								100 g							
NCS HC11009	(i)	CRM	Pig Iron								100 g							
NCS HC11010	(j)	CRM	Pig Iron								100 g							
		C	Cr	Cu	Mn	P	S	Si	Ti	V								
	(a)	3.77			0.659	0.23	0.129	1.47										
	(b)	3.36			0.561	0.166	0.176	1.39										
	(c)	3.36			0.386	0.135	0.154	1.82										
	(d)	2.72			0.359	0.124	0.115	2.56										
	(e)	2.19			0.219	0.047	0.048	3.07										
	(f)	3.11			0.85	0.27	0.13	1.37										
	(g)	2.7	0.589	0.031	1.66	0.201	0.102	1.72	0.014	0.0067								
	(h)	1.9	0.766	0.041	1.96	0.06	0.097	2.72	0.013	0.0075								
	(i)	3.26	0.373	0.02	1.98	0.385	0.081	1.18	0.024	0.0074								
	(j)	3.41	0.17	0.017	0.46	0.569	0.067	0.716	0.015	0.0039								
NCS HC11015	(a)	CRM	Rare Earth Magnesium Cast Iron										80 g					
		Al (sol.)	As	C	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	N	Ni	P	REE	S	Sb
	(a)	0.021	0.011	2.74	0.019	0.011	0.04	0.031	0.013	0.012	0.473	0.0016	0.0047	0.627	0.022	0.036	0.0009	(0.0005)
		Si	Sn	Ti	V													
	(a)	2.32	0.0037	0.015	0.031													
NCS HC13004	(a)	CRM	High Cr Cast Iron								150 g							
NCS HC13005	(b)	CRM	High Cr Cast Iron								150 g							
NCS HC13006	(c)	CRM	High Cr Cast Iron								150 g							
		C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ti	V						
	(a)	2.46	12.95	0.73	1.63	0.76	1.2	0.383	0.013	0.32	0.0089	0.026						
	(b)	2.86	22.52	0.42	1.07	1.14	0.25	0.058	0.028	0.36	0.005	0.039						
	(c)	2.31	26.5	0.36	0.83	2.71	0.49	0.064	0.043	0.59	0.0051	0.039						

Code	Product											Unit
NCS HC13007	(a)	CRM	Alloy Cast Iron									150 g
NCS HC13008	(b)	CRM	Alloy Cast Iron									150 g
NCS HC13009	(c)	CRM	Alloy Cast Iron									150 g
NCS HC13010	(d)	CRM	Alloy Cast Iron									150 g
NCS HC13011	(e)	CRM	Alloy Cast Iron									150 g
		C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ti	V
	(a)	3.95	4.31	0.011	0.27	0.36	0.029	0.13	0.233	1.3	0.016	0.012
	(b)	3.46	0.202	0.263	1.05	0.047	0.132	0.252	0.062	3.15	0.047	0.007
	(c)	3.06	0.045	0.016	1.08	0.0036	0.0069	0.162	0.112	2.17	0.035	0.0053
	(d)	3.35	0.96	0.018	0.699	2.39	0.3	0.147	0.045	2.44		
	(e)	3.23	1.36	0.243	1.2	0.639	0.919	0.31	0.045	4.3		
NCS HC13014	(a)	CRM	Pig Iron									150 g
NCS HC13015	(b)	CRM	Pig Iron									150 g
NCS HC13016	(c)	CRM	Pig Iron									150 g
NCS HC13020	(d)	CRM	Pig Iron									100 g
NCS HC13021	(e)	CRM	Pig Iron									100 g
NCS HC13022	(f)	CRM	Pig Iron									100 g
NCS HC13023	(g)	CRM	Pig Iron									100 g
NCS HC13024	(h)	CRM	Pig Iron									100 g
NCS HC13025	(i)	CRM	Pig Iron									100 g
NCS HC13026	(j)	CRM	Cast Iron									100 g
NCS HC13027	(k)	CRM	Cast Iron									100 g
NCS HC13028	(l)	CRM	Cast Iron									100 g
		C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ti	V
	(a)	3.71			0.796			0.826	0.03	0.42		
	(b)	2.51			0.62			0.104	0.02	4.08		
	(c)	2.99			1.3			0.278	0.1	1.29		
	(d)	2.72			0.508			0.105	0.024	1.32		
	(e)	2.52			1.46			0.273	0.060	1.41		
	(f)	2.85			0.821			0.071	0.027	3.02		
	(g)	2.36			2.10			0.124	0.038	1.45		
	(h)	1.88			0.472			0.160	0.034	4.13		
	(i)	2.51			0.301			0.087	0.081	2.28		
	(j)	1.28	21.12	0.044	0.741	0.335	1.12	0.0285	0.0054	0.644	0.060	0.287
	(k)	1.34	22.40	0.028	0.969	0.546	1.60	0.0310	0.0035	0.843	0.106	0.035
	(l)	1.58	24.73	0.0290	1.37	0.842	2.07	0.032	0.0038	1.11	0.184	0.032

铸铁碎屑样品

Code	Product								Unit
NCS HC14003	(a)	CRM	Pig Iron (NIM-GBW07219A)						150 g
NCS HC14004	(b)	CRM	Pig Iron (NIM-GBW07220)						150 g
NCS HC15011	(c)	CRM	Pig Iron						150 g
			C	Cu	Mn	P	S	Si	
	(a)		2.03	0.085	0.402	0.077	0.042	1.5	
	(b)		2.78	0.028	0.9	0.064	0.047	0.419	
	(c)		2.58		1	0.087	0.068	2.76	
NCS HC16001B	(a)	CRM	Pig Iron						100 g
NCS HC16002B	(b)	CRM	Pig Iron						100 g
NCS HC16003B	(c)	CRM	Pig Iron						100 g
NCS HC16004B	(d)	CRM	Pig Iron						100 g
NCS HC16005	(e)	CRM	Pig Iron (NIM-GBW01105A)						100 g
NCS HC16005B	(f)	CRM	Pig Iron (NIM-GBW01105B)						100 g
NCS HC16006	(g)	CRM	Pig Iron (NIM-GBW01106A)						100 g
NCS HC16006B	(h)	CRM	Pig Iron (NIM-GBW01106B)						100 g
NCS HC16008B	(i)	CRM	Pig Iron (NIM-GBW01108B)						100 g
NCS HC16009B	(j)	CRM	Pig Iron (NIM-GBW01109B)						100 g
			C	Cu	Mn	P	S	Si	Ti
	(a)		3.04	0.025	1.22	0.072	0.052	1.34	0.008
	(b)		2.38	0.026	0.7	0.082	0.034	0.48	0.006
	(c)		3.53	0.258	1.1	0.066	0.048	1.83	0.025
	(d)		3.39	0.202	0.94	0.113	0.016	2.41	0.058
	(e)		3.41	0.109	0.463	0.193	0.0081	3.82	0.151
	(f)		3.27	0.123	0.42	0.219	0.0046	3.87	0.107
	(g)		2.809	0.045	1.48	0.039	0.062	0.856	0.0118
	(h)		2.71	0.036	0.98	0.077	0.089	1.14	0.007
	(i)		3.45	0.015	1.84	0.046	0.018	1.44	0.019
	(j)		2.31	0.038	0.509	0.025	0.1	0.28	0.03

Code	Product																	Unit	
NCS HC16010B	(a)	CRM	Pig Iron																100 g
NCS HC16012	(b)	CRM	Pig Iron																150 g
NCS HC16016	(c)	CRM	Pig Iron																150 g
NCS HC16022	(d)	CRM	Pig Iron																100 g
NCS HC16023	(e)	CRM	Pig Iron																150 g
NCS HC16024	(f)	CRM	Pig Iron																150 g
NCS HC16025	(g)	CRM	Pig Iron																150 g
NCS HC16026	(h)	CRM	Pig Iron																150 g
NCS HC16027	(i)	CRM	Pig Iron																150 g
NCS HC16028	(j)	CRM	Pig Iron																150 g
		As	Bi	C	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Sb	Si	Sn	Ti	V	Zn	
	(a)			3.9		0.01	0.414			0.044		0.044		0.93		0.024			
	(b)	0.001	<0.00005	3.89	0.0081	0.0029	0.65	0.0066	0.0058	0.058	<0.0002	0.028	0.00016	1.58	0.00015	0.042			
	(c)			3.04			0.646			0.032		0.102		0.85					
	(d)			2.83			0.721			0.094		0.067		2.19					
	(e)			3.8			0.929			0.171		0.016		1.42					
	(f)			3.59			0.514			0.315		0.033		1.96					
	(g)			3.46			0.67			0.081		0.058		2.61					
	(h)			3.22			0.726			0.085		0.059		2.25					
	(i)	0.0011	<0.00005	4.06	0.01	0.0023	0.094	0.0027	0.0023	0.038	<0.0002	0.029	0.00013	0.725	0.00014	0.026	0.0064	(0.0003)	
	(j)	0.0012	<0.00005	4	0.036	0.0051	0.634	0.0089	0.0045	0.046	<0.0002	0.0073	0.00016	1.55	0.00018	0.084	0.018	(0.0002)	

铸铁碎屑样品

Code	Product									Unit
NCS HC18001	(a)	CRM	Cast Iron							150 g
NCS HC18002	(b)	CRM	Cast Iron							150 g
NCS HC18003	(c)	CRM	Pig Iron							100 g
NCS HC18004	(d)	CRM	Pig Iron							100 g
NCS HC18005	(e)	CRM	Pig Iron							100 g
NCS HC18006	(f)	CRM	Pig Iron							100 g
NCS HC18007	(g)	CRM	Pig Iron							100 g
NCS HC18008	(h)	CRM	Pig Iron							100 g
NCS HC18009	(i)	CRM	Pig Iron							100 g
		As	C	Mg	Mn	P	REE	S	Si	
	(a)		2.54		1.82	0.11		0.054	1.74	
	(b)		2.67		1.36	0.051		0.031	2.94	
	(c)	0.064	3.18		0.0732	0.243		0.049	1.43	
	(d)	0.095	4.00		0.26	0.11		0.023	0.796	
	(e)	0.091	2.89		0.733	0.108		0.0058	2.01	
	(f)	0.092	2.65		0.75	0.114		0.0057	1.99	
	(g)	0.017	4.17		0.348	0.078		0.0233	1.03	
	(h)	0.016	4.13		0.348	0.078		0.023	1.02	
	(i)	0.025	3.83		0.74	0.186		0.023	1.88	
NCS HC18010	(a)	CRM	Pig Iron							100 g
NCS HC18011	(b)	CRM	Pig Iron							100 g
NCS HC18012	(c)	CRM	Pig Iron							100 g
NCS HC18013	(d)	CRM	Pig Iron							100 g
NCS HC18014	(e)	CRM	Pig Iron							100 g
NCS HC18015	(f)	CRM	Pig Iron							100 g
NCS HC18016	(g)	CRM	Pig Iron							100 g
NCS HC18018	(h)	CRM	Pig Iron							100 g
		As	C	Mg	Mn	P	REE	S	Si	
	(a)	0.036	3.66	0.030	0.59	0.145	0.024	0.041	2.40	
	(b)	0.036	3.43		0.729	0.079		0.0082	1.93	
	(c)	0.037	3.23		0.74	0.079		0.0080	1.93	
	(d)	0.013	3.40		0.79	0.049		0.0087	2.12	
	(e)	0.012	3.36		0.792	0.049		0.0087	2.136	
	(f)	0.039	4.01		0.908	0.136		0.046	1.09	
	(g)	0.092	3.20		0.42	0.104		0.0092	2.91	
	(h)	0.027	4.02		0.856	0.056		0.036	1.73	

Code	Product																	Unit		
NCS HC19002	(a)	CRM	V Ti Pig Iron (NIM-GBW07225)																	100 g
NCS HC19004	(b)	CRM	V Ti Pig Iron (NIM-GBW07226A)																	100 g
NCS HC19007	(c)	CRM	Nodular Cast Iron																	100 g
NCS HC19008	(d)	CRM	Nodular Cast Iron																	100 g
NCS HC19010	(e)	CRM	V Ti RE Spherulitic Iron																	100 g
NCS HC19016	(f)	CRM	V Ti Pig Iron																	100 g
NCS HC19017	(g)	CRM	V Ti Pig Iron																	100 g
NCS HC19018	(h)	CRM	V Ti Pig Iron																	100 g
			C	Co	Cr	Cu	Ga	Mg	Mn	Mo	Ni	P	REE	S	Si	Ti	TI	V		
	(a)		3	0.033	0.033	0.066	0.0077		0.869		0.027	0.048		0.145	1.42		0.254	0.29		
	(b)		2.38	0.034	0.03	0.07	0.0073		1.28		0.028	0.069		0.077	2.12		0.314	0.4		
	(c)		2.855	0.036	0.0466	0.046		0.036	0.977		0.032	0.05	0.04	0.021	2.615	0.106		0.536		
	(d)		3.486	0.035	0.0425	0.044		0.0106	0.734		0.03	0.08	0.0185	0.015	2.529	0.096		0.394		
	(e)		2.69		0.227	0.042		0.028	0.79	0.0016	0.025	0.029	0.04	0.023	2.92	0.109		0.236		
	(f)		2.21	0.037	0.04	0.047		0.099	0.42		0.032	0.014	0.099	0.012	3.78	0.066		0.31		
	(g)		2.77	0.037	0.042	0.046		0.07	0.57		0.031	0.015	0.07	0.014	2.52	0.072		0.356		
	(h)		2.7	0.035	0.043	0.049		0.083	0.625		0.031	0.024	0.083	0.011	3.1	0.125		0.405		
NCS HC28007	(a)	CRM	Cast Iron																	150 g
NCS HC28009	(b)	CRM	Cast Iron																	150 g
NCS HC28010	(c)	CRM	Cast Iron																	150 g
NCS HC28011	(d)	CRM	Cast Iron																	150 g
NCS HC28012	(e)	CRM	Cast Iron																	150 g
NCS HC28013	(f)	CRM	Cast Iron																	150 g
NCS HC28014	(g)	CRM	Cast Iron																	150 g
NCS HC28015	(h)	CRM	Cast Iron																	150 g
NCS HC28017	(i)	CRM	Cast Iron																	150 g
			As	C	Co	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Sb	Si	Sn	Ti	V		
	(a)		0.006	3.06		0.033	0.068	0.77		0.042	0.069	0.000022	0.094	0.00089	1.36	0.0019	0.032			
	(b)		0.007	3.24		0.025	0.077	0.38		0.018	0.352	0.000018	0.159	0.00085	1.89	0.0023	0.055			
	(c)		0.0099	2.65		0.041	0.086	0.575		0.067	0.446	0.00002	0.097	0.0018	2.29	0.0042	0.041			
	(d)		0.045	3.05		0.022	0.194	0.57		0.018	0.298	0.000029	0.079	0.0044	2.67	0.0023	0.079			
	(e)			3.06		0.0325	0.068	0.77		0.0415	0.071		0.094		1.36		0.032			
	(f)			2.65		0.041	0.086	0.575		0.0675	0.45		0.098		2.29		0.041			
	(g)			3.05		0.022	0.194	0.57		0.018	0.3		0.079		2.67					
	(h)			3.58		0.0075	0.091	0.97		0.0125	0.08		0.014		3.02					
	(i)		0.016	3.08	0.011	0.035	0.1	0.665	0.0029	0.023	0.106	0.000021	0.122	0.00255	1.49	0.0028	0.043	0.02		

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Code	Product																Unit
NCS HC28023	(a)	CRM	High P Cast Iron														150 g
NCS HC28025	(b)	CRM	High P Cast Iron														150 g
NCS HC28026	(c)	CRM	High P Cast Iron														150 g
NCS HC28028	(d)	CRM	Alloy Cast Iron														150 g
NCS HC28029	(e)	CRM	Alloy Cast Iron														150 g
NCS HC28030	(f)	CRM	Alloy Cast Iron														150 g
NCS HC28031	(g)	CRM	Alloy Cast Iron														150 g
NCS HC28032	(h)	CRM	Alloy Cast Iron														150 g
			C	Cr	Cu	Mn	Mo	P	S	Si	Ti	V					
	(a)		3.08	0.094	0.294	0.704		0.847	0.13	1.61							
	(b)		2.98	0.081	0.201	0.698		1.8	0.087	1.8							
	(c)		2.9	0.086	0.245	0.702		1.91	0.124	1.81							
	(d)		3.11	0.28	1.03	0.605		0.25	0.088	1.71	0.0494	0.023					
	(e)		2.85	0.316	0.865	0.85		0.086	0.0995	1.91	0.033	0.017					
	(f)		3.23	0.12	0.12	0.736		0.109	0.124	1.28							
	(g)		2.95	0.23	0.642	0.595	0.155	0.065	0.107	1.75	0.03						
	(h)		3.19	0.54	0.745	0.955	0.303	0.107	0.108	1.295	0.04						
NCS HC28034	(a)	CRM	Alloy Cast Iron														150 g
NCS HC28035	(b)	CRM	Alloy Cast Iron														150 g
NCS HC28040	(c)	CRM	Rare Earth Cast Iron														150 g
NCS HC28041	(d)	CRM	Rare Earth Cast Iron														150 g
NCS HC28043	(e)	CRM	RE-Mg Spherulitic Iron														85 g
NCS HC28051	(f)	CRM	Pig Iron														150 g
NCS HC28054	(g)	CRM	Alloy Cast Iron														150 g
			C	Co	Cr	Cu	Mg	Mn	Mo	Nb	Ni	P	REE	S	Si	Ti	V
	(a)		3.15		0.464	1.04		0.795	0.515			0.321		0.082	1.67	0.053	
	(b)		3.15			0.915		0.685				0.49		0.076	1.44		
	(c)			0.0049	0.03	0.024		0.77	0.0026		0.013	0.058	0.058		3.04	0.076	0.011
	(d)		1.59		0.052	0.024		0.44				0.067	0.019	0.004	2.13		
	(e)		3.67	0.0065	0.0115	0.033	0.023	0.497	0.0013		0.011	0.084	0.0187	0.0053	2.673	0.068	0.0205
	(f)		3.94		0.0086	0.052		0.513			0.014	0.067		0.029	1.3	0.088	0.052
	(g)		3.01		0.619		0.047	0.645	0.355	0.095	1.19	0.188		0.011	2.03		

Code	Product									Unit		
NCS HC30001	(a)	CRM	Cast Iron									100 g
NCS HC30002	(b)	CRM	Cast Iron									100 g
NCS HC30003	(c)	CRM	Cast Iron									100 g
			C	Cu	Mn	P	S	Si				
	(a)		2.26	1.01	1.28	0.178	0.025	2.21				
	(b)		3.12	0.29	0.687	0.1	0.023	0.96				
	(c)		2.62	0.52	1.68	0.12	0.032	1.64				
NCS HC37001	(a)	CRM	High Cr Cast Iron									80 g
NCS HC37002	(b)	CRM	High Cr Cast Iron									80 g
NCS HC37003	(c)	CRM	High Cr Cast Iron									80 g
			C	Cr	Cu	Mn	Mo	Ni	P	S	Si	
	(a)		3.4	13.54	1.22	0.99	1.03	0.63	0.06	0.054	1.35	
	(b)		3.42	8.93	0.9	0.71	1.74	0.23	0.058	0.064	1.05	
	(c)		2.95	15.39	1.06	1.72	1.12	1.05	0.062	0.034	1.32	
NCS HC37004	(a)	CRM	RE-Mg Spherulitic Iron									100 g
NCS HC37005	(b)	CRM	RE-Mg Spherulitic Iron									100 g
NCS HC37006	(c)	CRM	RE-Mg Spherulitic Iron									100 g
NCS HC37007	(d)	CRM	RE-Mg Spherulitic Iron									100 g
NCS HC37008	(e)	CRM	RE-Mg Spherulitic Iron									100 g
			C	Cu	Mg	Mn	Mo	P	REE	S	Si	
	(a)		2.1	0.451	0.036	0.704	0.205	0.055	0.034	0.015	2.74	
	(b)		1.92	0.181	0.073	0.955	0.128	0.041	0.059	0.0064	3.36	
	(c)		2.12	0.617	0.056	0.531	2.295	0.036	0.08	0.0062	2.23	
	(d)		2.95	0.783	0.015	0.238	0.405	0.041	0.01	0.012	2.06	
	(e)		2.59	0.288	0.014	0.373	0.514	0.042	0.011	0.012	3.08	

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Code	Product										Unit
NCS HC37010	(a)	CRM	Cast Iron								100 g
NCS HC37011	(b)	CRM	Cast Iron								100 g
NCS HC37012	(c)	CRM	Cast Iron								100 g
NCS HC37013	(d)	CRM	Wrought Iron								100 g
NCS HC37014	(e)	CRM	Wrought Iron								100 g
NCS HC37015	(f)	CRM	High Cr Cast Iron								80 g
NCS HC37016	(g)	CRM	High Cr Cast Iron								80 g
NCS HC37017	(h)	CRM	High Cr Cast Iron								80 g
		Bi	C	Cr	Cu	Mn	Mo	Ni	P	S	Si
	(a)		3.63			0.762			0.187	0.07	2.82
	(b)		3.73			0.565			0.117	0.067	2.58
	(c)		3.75			0.73			0.152	0.068	2.15
	(d)	0.0025	2.11	0.119		0.353			0.167	0.139	1.7
	(e)	0.00093	2.25	0.163		0.537			0.241	0.088	1.03
	(f)		3.4	13.45	1.22	0.89	1.03	0.63	0.06	0.054	1.35
	(g)		3.42	8.93	0.9	0.71	1.74	0.23	0.058	0.064	1.05
	(h)		2.95	15.39	1.06	1.72	1.12	1.05	0.062	0.034	1.32
NCS HC37018	(a)	CRM	Manganese Spherulitic Iron								100 g
NCS HC37019	(b)	CRM	Manganese Spherulitic Iron								100 g
NCS HC37020	(c)	CRM	Manganese Spherulitic Iron								100 g
NCS HC37021	(d)	CRM	Manganese Spherulitic Iron								100 g
		C	Mg	Mn	P	REE	S	Si			
	(a)	2.78	0.049	6.8	0.12	0.041	0.0027	5.96			
	(b)	3.06	0.054	6.72	0.11	0.049	0.0041	5.8			
	(c)	2.88	0.068	6.4	0.11	0.047	0.0035	3.75			
	(d)	2.79	0.028	8.77	0.1	0.045	0.006	6.58			

Code	Product								Unit
NCS HC37028	(a)	CRM	Pig Iron						100 g
NCS HC37029	(b)	CRM	Pig Iron						100 g
NCS HC37030	(c)	CRM	Pig Iron						100 g
NCS HC37031	(d)	CRM	Pig Iron						100 g
NCS HC37032	(e)	CRM	Pig Iron						100 g
NCS HC37034	(f)	CRM	Pig Iron						100 g
NCS HC37035	(g)	CRM	Pig Iron						100 g
		C	Cr	Cu	Mn	P	S	Si	
	(a)	2.04	0.197	0.642	1.34	0.479	0.038	3.37	
	(b)	2.15	0.221	0.752	1.08	0.451	0.068	2.69	
	(c)	2.22	0.142	0.501	0.869	0.339	0.101	2.2	
	(d)	2.04	0.054	0.176	1.67	0.226	0.103	1.86	
	(e)	2.28	0.028	0.041	0.358	0.086	0.161	1.34	
	(f)	3.73			0.565	0.117	0.067	2.58	
	(g)	3.75			0.73	0.152	0.068	2.15	
NCS HC37036	(a)	CRM	Cast Iron						100 g
NCS HC37037	(b)	CRM	Cast Iron						100 g
NCS HC37038	(c)	CRM	Cast Iron						100 g
NCS HC37039	(d)	CRM	Cast Iron						100 g
NCS HC37040	(e)	CRM	Cast Iron						100 g
NCS HC37041	(f)	CRM	Cast Iron						100 g
NCS HC37042	(g)	CRM	Cast Iron						100 g
NCS HC37043	(h)	CRM	Cast Iron						100 g
		Bi	C	Cr	Cu	Mn	P	S	Si
	(a)	0.0034	1.67	0.055		1.05	0.085	0.024	1.9
	(b)	0.0038	1.9	0.025		0.78	0.11	0.055	2.34
	(c)	0.0015	2.01	0.113		0.677	0.057	0.115	1.44
	(d)		2.04	0.197	0.642	1.34	0.479	0.038	3.37
	(e)		2.15	0.221	0.752	1.08	0.451	0.068	2.69
	(f)		2.22	0.142	0.501	0.869	0.339	0.101	2.2
	(g)		2.04	0.054	0.176	0.67	0.226	0.103	1.86
	(h)		2.28	0.028	0.041	0.358	0.086	0.161	1.34

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Code	Product						Unit
NCS HC39001	(a)	CRM	Cast Iron				100 g
NCS HC39002	(b)	CRM	Cast Iron				100 g
NCS HC39003	(c)	CRM	Cast Iron				100 g
NCS HC39004	(d)	CRM	Cast Iron				100 g
NCS HC39005	(e)	CRM	Cast Iron				100 g
NCS HC39008	(f)	CRM	Cast Iron				100 g
NCS HC39009	(g)	CRM	Cast Iron				100 g
NCS HC39010	(h)	CRM	Cast Iron				100 g
		C	Mn	P	S	Si	
	(a)	2.85	0.38	0.081	0.096	2.48	
	(b)	2.81	0.57	0.062	0.134	1.71	
	(c)	2.95	0.26	0.142	0.085	1.49	
	(d)	2.78	0.78	0.066	0.082	2.17	
	(e)	3.18	0.76	0.122	0.073	1.57	
	(f)	2.59	0.859	0.187	0.093	2.17	
	(g)	2.47	1.56	0.318	0.057	3.33	
	(h)	2.65	0.331	0.113	0.134	1.29	

Code	Product																Unit		
NCS HC39011	(a)	CRM	Boron Cast Iron																100 g
NCS HC39012	(b)	CRM	Boron Cast Iron																100 g
NCS HC39013	(c)	CRM	Boron Cast Iron																100 g
NCS HC39014	(d)	CRM	Boron Cast Iron																100 g
			B	C	Mn	P	S	Si											
	(a)		0.061	2.96	0.57	0.082	0.058	1.67											
	(b)		0.125	3.03	0.68	0.128	0.064	2.08											
	(c)		0.0101	2.86	0.56	0.106	0.052	2.35											
	(d)		0.049	3.03	0.36	0.1	0.054	1.95											
NCS HC41001	(a)	CRM	Pure Iron Used in Industry																150 g
NCS HC41002	(b)	CRM	DT4																150 g
NCS HC41010	(c)	CRM	Cast Iron																150 g
NCS HC41011	(d)	CRM	Cast Iron																150 g
NCS HC41012	(e)	CRM	Cast Iron																150 g
NCS HC41013	(f)	CRM	Cast Iron																150 g
			Al	As	C	Cr	Cu	Mn	Mo	Ni	P	Pb	S	Sb	Si	Sn	Ti	V	
	(a)			0.0024	0.021	0.022	0.027	0.204	0.0060	0.003	0.0115		0.0092		0.074	0.014		0.0003	
	(b)		0.309		0.023			0.178			0.016		0.009		0.075				
	(c)				2.64	0.086	0.056	0.54	0.021	0.03	0.086		0.029		1.49		0.024	0.011	
	(d)				2.64	0.151	0.146	0.725	0.105	0.035	0.177		0.033		2.23		0.031	0.014	
	(e)		0.017		2.52	0.115	0.114	1.24		0.037	0.635	0.0008	0.032	0.0011	3.86		0.071	0.033	
	(f)		0.026		2.46	0.105	0.132	0.93		0.036	0.41	0.0008	0.041	0.0011	2.66		0.061	0.024	

铸铁碎屑样品

Code	Product												Unit					
NCS HC93001	(a)	CRM	Pig Iron												100 g			
NCS HC93002	(b)	CRM	Alloy Cast Iron												100 g			
NCS HC93003	(c)	CRM	Alloy Cast Iron												100 g			
NCS HC93004	(d)	CRM	Alloy Cast Iron												100 g			
NCS HC93005	(e)	CRM	Alloy Cast Iron												100 g			
NCS HC93006	(f)	CRM	Alloy Cast Iron												100 g			
NCS HC93007	(g)	CRM	Alloy Cast Iron												100 g			
			C	Cr	Cu	Mn	Mo	Ni	P	REE	S	Si	Ti	V				
	(a)		4.01			1.15			0.097		0.069	1.49						
	(b)		1.82	0.6	0.24	1.84	0.16	0.95	0.027	0.024	0.097	3.54	0.46	0.2				
	(c)		2.4	0.97	2.18	1.19	0.11	0.23	0.072	0.025	0.084	2.47	0.13	0.16				
	(d)		3.28	0.21	0.82	0.48	1.1	0.33	0.34	0.01	0.018	2	0.035	0.06				
	(e)		2.76	0.39	1.36	0.69	0.65	0.59	0.14	0.007	0.058	1.37	0.15	0.3				
	(f)		2.64	1.92	0.35	0.29	0.25	2.65	0.43	0.044	0.079	1.21	0.029	0.02				
	(g)		3.94	0.14	0.49	0.14	0.42	1.56	0.058	0.027	0.028	0.82	0.08	0.58				
ECRM-D 428-2	(a)	CRM	Cast iron GG 25, powdered material produced by atomization of the melt - powder												100 g			
ECRM-D 476-3	(b)	CRM	Pig iron - powder												100 g			
ECRM-D 478-2	(c)	CRM	Hematite pig iron - powder												100 g			
ECRM-D 479-1	(d)	CRM	Alloyed cast iron - powder												100 g			
ECRM-D 480-1	(e)	CRM	Nodular iron - powder												100 g			
			Al	As	B	C	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Ti	V
	(a)			0.0156		2.747	0.0366	0.0996		0.75			0.0358	0.0691	0.1105	1.751	0.0311	0.012
	(b)			0.0145		3.39	0.0648	0.2445		0.987		0.0038	0.0549	0.0908	0.0493	1.813	0.0222	0.0115
	(c)			(0.0018)	0.0006	4.003	0.251	0.1276		0.321		0.0023	0.151	0.201	0.046	2.411	0.0328	0.0113
	(d)		0.0143			2.86	1.001	(0.0065)		0.136	0.1959		1.0123	0.0764	0.0893	2.018		
	(e)		0.0163			3.029		(0.0052)	0.0172	0.1514			0.4826	0.0021	0.0086	2.407		

Code	Product																	Unit		
ECRM-B 451-2	(a)	CRM	Austenitic cast iron - chips (BAS-BCS-CRM 263/3)																	100 g
ECRM-B 453-1	(b)	CRM	High Si and P iron - chips (BAS-BCS-CRM 206/3)																	100 g
ECRM-B 454-1	(c)	CRM	Hematite iron - chips																	100 g
ECRM-B 481-1	(d)	CRM	Nodular iron - chips																	100 g
ECRM-B 482-2	(e)	CRM	Low alloyed cast iron - chips																	100 g
ECRM-B 483-1	(f)	CRM	High duty iron - chips																	100 g
ECRM-B 484-1	(g)	CRM	Whiteheart malleable iron - chips																	100 g
ECRM-B 486-1	(h)	CRM	Foundry iron - chips																	100 g
ECRM-B 489-1	(i)	CRM	White cast iron - chips																	100 g
			Al	As	C	C (graph)	Cr	Cu	Mg	Mn	Mo	N	Ni	P	S	Si	Sn	Ti	V	
	(a)				2.059		1.097	6.2613		1.0790			14.0131	0.0593	0.0315	2.0916				
	(b)			0.019	(2.44)	(2.37)	0.053	0.1		0.72			0.068	1.63	0.049	3.17		(0.04)	0.05	
	(c)			(0.025)	(2.53)	(1.96)		(0.07)		1.16			(0.21)	0.046	0.068	2		0.052		
	(d)	0.023	0.01	3.91			0.063	0.15	0.051	0.448	0.011		1.19	0.019	0.004	2.29				
	(e)			2.599			0.675	1.231		0.728	0.454		2.284	0.0974	0.0491	1.815				
	(f)			2.46	1.65		0.039			0.596				0.615	0.103	1.75	0.13			
	(g)			3.2			0.155			0.395				0.121	0.23	0.717				
	(h)			2.21			0.104	0.548		0.841			0.057	1	0.023	2.43	0.074	0.02		
	(i)			2.86				0.274		(0.51)		(0.0056)		0.815	0.155	1.524				
ECRM-F 485-2	(a)	CRM	Cast iron - chips																	100 g
ECRM-F 487-1	(b)	CRM	Cast iron - chips																	100 g
ECRM-F 487-2	(c)	CRM	Cast iron - chips																	100 g
ECRM-F 488-2	(d)	CRM	Low alloyed white cast iron - chips																	100 g
ECRM-F 492-1	(e)	CRM	Cast iron, for C/S/N-determination - chips																	100 g
			Al	As	C	Co	Cr	Cu	Mn	N	Ni	P	S	Si	Sn	Te	Ti	V	Zn	
	(a)				3.308		0.0845	0.0303	0.19	0.0058	0.0742	0.61	0.165	0.508						
	(b)			0.011	3.27	0.0088	0.063		0.094	0.0042	0.04	0.002	0.0007	0.006						
	(c)	0.079	0.0063	3.573		0.0151	0.0248	0.0136	0.0491	0.004	0.0219	0.0065	0.0031	0.0898	0.0045	0.0064	0.0022	0.0117	0.0012	
	(d)			3.956			0.303	0.0256	0.201	0.0052	0.1247	0.0111	0.1173	0.374	0.0013		0.0636	0.0545		
	(e)			3.258						0.0048			0.0854							

铸铁碎屑样品

Code	Product									Unit
CTIF-FA10	(a)	CRM	Cast Iron							100 g
CTIF-FA20	(b)	CRM	Cast Iron							100 g
CTIF-FB20	(c)	CRM	Cast Iron							100 g
CTIF-FB20-1	(d)	CRM	Cast Iron							100 g
CTIF-FB20-2	(e)	CRM	Cast Iron							100 g
CTIF-FG10	(f)	CRM	Cast Iron							100 g
CTIF-FG20	(g)	CRM	Cast Iron							100 g
		C	Cr	Cu	Mn	Ni	P	S	Si	
	(a)	1.976	1.986	0.492	1.063	20.05	0.045		1.48	
	(b)	0.643	28.3		0.368		0.045		1.519	
	(c)	2.114	0.035		0.464		0.039	0.128	1.012	
	(d)	3.552	(0.1)		(0.39)		(0.07)	0.059	(0.935)	
	(e)	3.557	(0.1)		(0.39)		(0.07)	0.0614	(0.935)	
	(f)	2.322			1.098		0.111	0.016	2.467	
	(g)	2.487			0.571		1.44	0.109	1.726	

Code	Product																		Unit		
MBH-C11X 152940 S	(a)	RM	Pure Iron with Chromium																		100 g
CKD-228	(b)	CRM	Cast Iron																		200 g
CKD-230/100	(c)	CRM	Cast Iron																		100 g
DH-SE25-12	(d)	RM	Cast iron																		50 g
IPT-37B	(e)	CRM	Cast Iron, gray																		80 g
IPT-49	(f)	CRM	Cast Iron, white																		80 g
IPT-69	(g)	CRM	Cast Iron																		80 g
IPT-75A	(h)	CRM	Cast Iron, gray (Ni-Cr-Mo-Cu)																		80 g
SEI-102-8	(i)	CRM	Pig Iron for steel making																		150 g
SEI-110-12	(j)	CRM	Pig Iron for Casting																		100 g
SEI-120-1	(k)	CRM	Cast Iron - 3C																		150 g
NM 73	(l)	CRM	Cast Iron																		100 g
		Al (sol.)	As	B	Bi	C	C (graph)	Ce	Co	Cr	Cu	La	Mg	Mn	Mo	N	Nb	Ni			
	(a)					2.15			1.05	31.02	0.174			0.52	0.278		4.2				
	(b)	0.01	0.035	0.005	0.005	1.95			0.015	0.31	0.56			1.27	1		0.31				
	(c)	0.01	0.005		(0.001)	2.55		0.01	0.01	0.09	1.05	(0.005)	0.04	0.31	0.05		1.11				
	(d)	0.054	0.012			4.738			0.016	0.08	0.106			0.758	0.002		<0.002	0.026			
	(e)					3.37	2.85			0.088	0.052			0.737			0.074				
	(f)					2.11				0.02	0.04			0.272			0.021				
	(g)					3.34	2.5			0.353	0.47			0.715	(0.004)		0.272				
	(h)					3.4	2.7			0.487	0.433			0.722	0.438		0.425				
	(i)					4.71								0.326		0.003					
	(j)		0.0022			4.18				0.0162	0.003			0.392		0.0044	0.0117				
	(k)					2.85				0.28	0.29			0.7	(0.007)	0.0058	0.12				
	(l)					3.07	2.55							0.82							
		P	Pb	S	Sb	Se	Si	Sn	Te	Ti	Tl	V	W	Zr							
	(a)	0.081	0.023	0.072			0.49	0.072				0.024	0.301								
	(b)	0.3	0.005	0.145	0.02	(0.02)	2.51	0.05	(0.01)	0.03		0.005	0.04	0.015							
	(c)	0.049		0.024	0.006		1.04	0.01		0.01		0.02									
	(d)	0.081		0.103			1.865			0.036		0.015									
	(e)	0.148		0.069			1.66				0.034										
	(f)	0.012		0.019			0.78														
	(g)	0.267		0.018			2.07				0.019										
	(h)	0.25		0.033			1.98			0.022		0.03									
	(i)	0.103		0.0353			0.257			0.0255											
	(j)	0.0902		0.0251			1.7			0.0324		0.01									
	(k)	0.053		0.0095			1.32			0.006		0.007									
	(l)	0.22		0.014			1.21														

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