

Certificate of Certified Reference Material

NCS HS 92746

Cast Iron

Issued in 2011

Approved by China National Analysis Center for Iron and Steel

(Beijing China)

Certified Value and Standard deviation

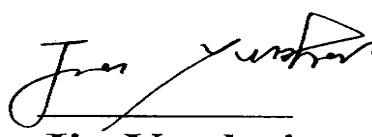
No.		C	Si	Mn	P	S	Cr	Ni
NCS HS 92746	Certified Value Standard deviation	3.36 0.02	2.44 0.03	0.231 0.002	0.040 0.002	0.0060 0.0003	0.16 0.01	2.24 0.02
		Mg	Ti	Ce				
NCS HS 92746	Certified Value Standard deviation	0.033 0.001	0.073 0.002	0.0060 0.0002				

Note:

- 1.Each certified value is the mean of analytical results of 6 independent laboratories.
- 2.The sample is cylinder bar with size Φ30×30 mm and packed in box.
- 3.The sample should be stored in dry place. The valid time for the sample is 15 years.

Analytical Methods

Element	Analytical methods
C	Combustion-gas volumetric method; Combustion-infrared absorption method
Si	Gravimetric method after dehydration with perchloric acid; Silicon-molybdate photometric method
Mn	Periodate oxidation photometric method; AAS; ICP-AES
P	Butyl acetate extraction photometric method; N-butyl alcohol-chloroform extraction photometric method; ICP-AES
S	Combustion-titrimetric method; Combustion-infrared absorption method
Cr	Sodium carbonate separation diphenylcarbazide Photometric method; ICP-AES
Ni	Dimethylglyoxime photometric method; ICP-AES; AAS
Mg	Cupferron separation eriochroem black T photometric method; Cupferron separation dimethylbenzidine blue photometric method; AAS; ICP-AES
Ti	Photometric method with chromotropic acid; ICP-AES
Ce	ICP-AES



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