

Certificate of Certified Reference Material

NCS HC93643

Ferrosilicon Nitride

Issued in 2016

Approved by China National Analysis Center for Iron and Steel

(Beijing China)

This Certified Reference Materials is prepared in accordance with the ISO guides 30-35. The intended use for this CRM is for the quality control in ferrosilicon Nitride analysis, the evaluating methods of analysis and the calibration of analytical instruments.

Certified Values and Extended uncertainty (k=2) (%)

No.		C	S	P	Ca	Al
NCS HC 93643	Certified Value	0.52	0.019	0.018	0.45	0.72
	Uncertainty	0.02	0.005	0.001	0.03	0.04
No.		Fe	Ti	Si	N	Si ₃ N ₄
NCS HC 93643	Certified Value	15.08	0.071	49.67	29.65	74.24
	Uncertainty	0.10	0.002	0.14	0.40	1.00

Note:

1. 8 independent laboratories take part in the analysis work.
2. The sample is powder with size less 0.080mm packed in glass bottle.
The minimum package is 50 grams.
The minimum weight for analysis is 0.1g.
3. The valid time of the sample is 10 years, although we reserve the right to make change as issue revisions.

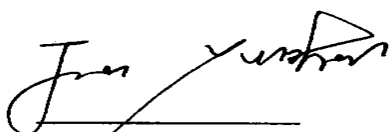
Analytical Methods

Element	Analytical method
C	The gasometric method; Infrared absorption method; Gravimetric method
S	Infrared absorption method, Combustion-titrimetric method
P	Bismuth-phosphorus- molybdenum blue photometric method; ICP-AES
Ca	ICP-AES; AAS
Al	Chrome azurol S photometric method; ICP-AES;
Fe	Potassium dichromate titrimetric method
Ti	Diantipryl methane photometric method; ICP-AES
Si	Gravimetric method after dehydration with perchloric acid
N	Titrimetric method; Pulse heating -- thermal conductive method

Statement:

This material is used only in labs and for analysis work, producer will be not responsible for any problem caused by misuse or not properly store.

Please check carefully the package, quantity and type of the material after receiving it. Related compensation is only limited in the certified materials, any other losses will be not included.



Jia Yunhai

Laboratory Director