

Certificate of Certified Reference Material

NCS HC 25642

Nitrided Ferro Manganese

Reissued in 2014

Approved by China National Analysis Center for Iron and Steel

(Beijing China)

Certified Values and Standard Deviation

(%)

No.		Mn	Si	P	C	S	N
NCS HC 25642	Certified Value	74.02	1.70	0.183	1.14	0.0065	4.92
	Standard Deviation	0.15	0.03	0.004	0.02	0.0010	0.11

Note:

1. Each certified value is the mean of analytical results of 9 independent laboratories.
2. The sample is powder packed in glass bottle. The minimum package is 50 grams.
3. The minimum weight for analysis Mn, Si, P is 0.20g; for C,S is 0.30g, N is 0.10g.
4. 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
Mn	Potential titrimetric method; The perchloric acid oxidation titrimetric method; Ammonium nitrate oxidation titrimetric method; The sodium arsenite-sodium nitrite volumetric method
Si	Gravimetric method after dehydration with perchloric acid; Silicon-molybdenum blue photometric method
P	Hydrazine sulfate phosphomolybdate blue photometric method; Bismuth-phosphomolybdate photometric method; ICP-AES method; Bismuth-phosphorus-molybdenum blue photometric method; The butyl acetate extraction phosphorus-molybdenum blue photometric method; The n-butyric alcohol-trichloromethane extraction photometric method
C	Gasometric method; Infrared absorption method
S	Infrared absorption method; Combustion-potassium iodate volumetric method
N	Thermal conductometric method; Titrimetric method after distillation separation



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