

Certificate of Certified Reference Material

NCS AH 11341d

42CrMo

Issued in 2016

Approved by China National Analysis Center for Iron and Steel

(Beijing China)

Certified Values and Standard Deviation

		(%)				
No.		C	Si	Mn	P	S
NCS AH 11341d	Certified Value	0.396	0.248	0.566	0.023	0.0056
	Standard Deviation	0.007	0.005	0.004	0.001	0.0003
		Cr	Ni	Cu	Mo	As
NCS AH 11341d	Certified Value	0.953	0.050	0.050	0.160	0.029
	Standard Deviation	0.006	0.002	0.002	0.004	0.001

Note:

1. Each certified value is the mean of analytical results of 5 independent laboratories.
2. The sample is cylinder bar with $\varnothing 37 \times 40$ mm and packed in box.
3. The sample should be stored at dry place.
4. The valid time of the sample is 15 years, although we reserve the right to make change as issue revisions.

Analytical Methods

C:

Combustion-infrared absorption method

Si:

Silicon-molybdenum blue photometric method; ICP-AES method

Mn:

Potassium periodate oxidation photometric method
ICP-AES method; AAS

P:

Bismuth-phosphorus-molybdenum blue photometric method; ICP-AES method

S:

Infrared absorption method

Cr:

Ammonium persulfate oxidation titrimetric method; ICP-AES method

Ni:

The dimethylglyoxime photometric method
ICP-AES method; AAS

Cu:

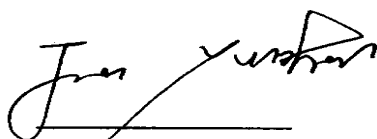
The neocuprone-trichloromethane extraction photometric method
ICP-AES method; AAS

Mo:

Thiocyanate photometric method; ICP-AES method

As:

Molybdenum blue photometric method after distillation;
ICP-AES method; ICP-MS.



Jia Yunhai

Laboratory Director