



## Special Contract Rules for Primary Nickel

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Quality: ASTM Standard Specification for Nickel B39-79 (2013)

Element	Composition, weight %	
Nickel	99.80	minimum
Cobalt	0.15	maximum
Copper	0.02	maximum
Carbon	0.03	maximum
Iron	0.02	maximum
Sulphur	0.01	maximum
Phosphorus	0.005	less than
Manganese	0.005	less than
Silicon	0.005	less than
Arsenic	0.005	less than
Lead	0.005	less than
Antimony	0.005	less than
Bismuth	0.005	less than
Tin	0.005	less than
Zinc	0.005	less than



Quality: GB/T 6516-2010 – Ni9990 grade

Grade		Ni9990
Ni+Co (%min)		99.90
Impurities (%max)	Cobalt	0.08
	Carbon	0.01
	Silicon	0.002
	Phosphorus	0.001
	Sulphur	0.001
	Iron	0.02
	Copper	0.02
	Zinc	0.002
	Arsenic	0.001
	Cadmium	0.0008
	Tin	0.0008
	Antimony	0.0008
	Lead	0.0015
	Bismuth	0.0008
Magnesium	0.002	