

Carbon Steel, AISI 1050, UNS G10500, Chips

Art. ID	IARM-Fe1050-18-C
Unit	100 g (chips)
Deliverydetails	No Dangerous Good /not restricted

Description

Carbon steels are among the most versatile steels, and the amount of Carbon in the steel correlates directly to its mechanical properties. Carbon steels are typically used for building, and railroads.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Value	Aluminium (Al)	[7429-90-5]	0,003 ± 0,002	%		
Certified Value	Arsenic (As)	[7440-38-2]	0,003 ± 0,0009	%		
Certified Value	Boron (B)	[7440-42-8]	0,0005 ± 0,0003	%		
Certified Value	Carbon (C)	[7440-44-0]	0,499 ± 0,006	%		
Certified Value	Cobalt (Co)	[7440-48-4]	0,0056 ± 0,0007	%		
Certified Value	Chromium (Cr)	[7440-47-3]	0,1 ± 0,003	%		
Certified Value	Copper (Cu)	[7440-50-8]	0,179 ± 0,005	%		
Certified Value	Iron (Fe)	[7439-89-6]	98 ± 0,1	%		
Certified Value	Manganese (Mn)	[7439-96-5]	0,79 ± 0,01	%		
Certified Value	Molybdenum (Mo)	[7439-98-7]	0,018 ± 0,001	%		
Certified Value	Nitrogen (N)	[7727-37-9]	0,0097 ± 0,0004	%		
Certified Value	Niobium (Nb)	[7440-03-1]	0,0013 ± 0,0006	%		
Certified Value	Nickel (Ni)	[7440-02-0]	0,068 ± 0,002	%		
Certified Value	Oxygen (O)	[7782-44-7]	0,0026 ± 0,0003	%		
Certified Value	Phosphorus (P)	[7723-14-0]	0,0045 ± 0,0008	%		
Certified Value	Sulfur (S)	[7704-34-9]	0,027 ± 0,002	%		
Certified Value	Antimony (Sb)	[7440-36-0]	0,0015 ± 0,0004	%		
Certified Value	Silicon (Si)	[7440-21-3]	0,223 ± 0,006	%		
Certified Value	Tin (Sn)	[7440-31-5]	0,0103 ± 0,0009	%		
Certified Value	Titanium (Ti)	[7440-32-6]	0,0008 ± 0,0002	%		
Certified Value	Vanadium (V)	[7440-62-2]	0,027 ± 0,0007	%		
Certified Value	Zinc (Zn)	[7440-66-6]	0,003 ± 0,002	%		
Indicative Value	Bismuth (Bi)	[7440-69-9]	<50	ppm		
Indicative Value	Calcium (Ca)	[7440-70-2]	~20	ppm		
Indicative Value	Cadmium (Cd)	[7440-43-9]	<10	ppm		
Indicative Value	Hydrogen (H)	[1333-74-0]	<1	ppm		
Indicative Value	Magnesium (Mg)	[7439-95-4]	<50	ppm		
Indicative Value	Lead (Pb)	[7439-92-1]	~1,5	ppm		
Indicative Value	Selenium (Se)	[7782-49-2]	<50	ppm		

Indicative Value	Tantalum (Ta)	[7440-25-7]	~20	ppm
Indicative Value	Tungsten (W)	[7440-33-7]	~5	ppm
Indicative Value	Zirconium (Zr)	[7440-67-7]	~10	ppm