

**Reference Material Manganese Steel, Grade1.3402, CRM, Disc approx. Ø 36 mm x 20 mm**

Art. ID HRT-FE2022-H  
Unit disc  
Deliverydetails No Dangerous Good /not restricted

**Description**

This Reference Material is intended for use in spark atomic emission and x-ray spectrometric methods of analysis. The entire depth of the disc may be used.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Carbon (C)	[7440-44-0]	0,669 ± 0,012	%		
	Silicon (Si)	[7440-21-3]	0,149 ± 0,003	%		
	Manganese (Mn)	[7439-96-5]	14,08 ± 0,11	%		
	Phosphorus (P)	[7723-14-0]	0,008 ± 0,001	%		
	Sulfur (S)	[7704-34-9]	0,0035 ± 0,0012	%		
	Chromium (Cr)	[7440-47-3]	0,142 ± 0,006	%		
	Molybdenum (Mo)	[7439-98-7]	0,013 ± 0,002	%		
	Nickel (Ni)	[7440-02-0]	3,09 ± 0,06	%		
	Copper (Cu)	[7440-50-8]	0,035 ± 0,001	%		
	Niobium (Nb)	[7440-03-1]	0,006 ± 0,001	%		
	Vanadium (V)	[7440-62-2]	0,018 ± 0,003	%		
	Titanium (Ti)	[7440-32-6]	0,0019 ± 0,0005	%		
	Aluminium (Al)	[7429-90-5]	0,0069 ± 0,0008	%		
	Nitrogen (N)	[7727-37-9]	0,0106 ± 0,0017	%		
	Boron (B)	[7440-42-8]	0,0008 ± 0,0003	%		
	Cobalt (Co)	[7440-48-4]	0,011 ± 0,002	%		
	Tin (Sn)	[7440-31-5]	0,0036 ± 0,0008	%		