

## **Tool Steel / Shock-Resisting/ Certified Reference Material / AISI S-7 / T41907, Chips**

Art. ID IARM-FeS7-18-C  
Unit 100 g (chips)  
Deliverydetails No Dangerous Good /not restricted

### Description

The S-7 (IARM-FeS7-18) is typical of the grade, which is known for good resistance to high impact and shock loading.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Value	Aluminium (Al)	[7429-90-5]	0,015 ± 0,002	%		
Certified Value	Arsenic (As)	[7440-38-2]	0,005 ± 0,001	%		
Certified Value	Carbon (C)	[7440-44-0]	0,51 ± 0,01	%		
Certified Value	Cobalt (Co)	[7440-48-4]	0,0106 ± 0,0009	%		
Certified Value	Chromium (Cr)	[7440-47-3]	3,28 ± 0,04	%		
Certified Value	Copper (Cu)	[7440-50-8]	0,128 ± 0,004	%		
Certified Value	Manganese (Mn)	[7439-96-5]	0,271 ± 0,007	%		
Certified Value	Molybdenum (Mo)	[7439-98-7]	1,39 ± 0,02	%		
Certified Value	Nitrogen (N)	[7727-37-9]	0,0102 ± 0,0004	%		
Certified Value	Niobium (Nb)	[7440-03-1]	0,005 ± 0,003	%		
Certified Value	Nickel (Ni)	[7440-02-0]	0,17 ± 0,007	%		
Certified Value	Oxygen (O)	[7782-44-7]	0,0023 ± 0,0006	%		
Certified Value	Phosphorus (P)	[7723-14-0]	0,021 ± 0,001	%		
Certified Value	Lead (Pb)	[7439-92-1]	0,0003 ± 0,0001	%		
Certified Value	Sulfur (S)	[7704-34-9]	0,0032 ± 0,004	%		
Certified Value	Antimony (Sb)	[7440-36-0]	0,0016 ± 0,0007	%		
Certified Value	Silicon (Si)	[7440-21-3]	0,47 ± 0,02	%		
Certified Value	Tin (Sn)	[7440-31-5]	0,006 ± 0,002	%		
Certified Value	Titanium (Ti)	[7440-32-6]	0,0014 ± 0,0003	%		
Certified Value	Vanadium (V)	[7440-62-2]	0,233 ± 0,003	%		
Certified Value	Tungsten (W)	[7440-33-7]	0,016 ± 0,002	%		
Certified Value	Zinc (Zn)	[7440-66-6]	0,0011 ± 0,0006	%		
Indicative Value	Beryllium (Be)	[7440-41-7]	<50	ppm		
Indicative Value	Bismuth (Bi)	[7440-69-9]	<150	ppm		
Indicative Value	Boron (B)	[7440-42-8]	~3	ppm		
Indicative Value	Cadmium (Cd)	[7440-43-9]	<10	ppm		
Indicative Value	Hydrogen (H)	[1333-74-0]	<1	ppm		
Indicative Value	Iron (Fe)	[7439-89-6]	~93,6	%		
Indicative Value	Magnesium (Mg)	[7439-95-4]	<30	ppm		

Indicative Value	Tantalum (Ta)	[7440-25-7]	<20	ppm
Indicative Value	Zirconium (Zr)	[7440-67-7]	<60	ppm