

Hydrogen Reduced Carbon free Sponge Iron Powder

Detailed Specifications

Chemical Analysis of Sponge Iron Powder

Fe (T) %	%C	% Si	% Al	% S	% P	% Mn	% Mg	%H₂ Loss
98.5 min	0.02	0.2	0.05	0.001	0.054	0.016	0.005	0.2 - 0.4
% Ni	%Zn	% Cu	% Sn	% As	% W	% Ti		
0.007	0.007	0.009	0.012	0.007	0.007	0.007		

Physical Properties

Iron Powder Grade	A.D (g/cc)	Green Compact Density (g/cc)		
		800MPa	600MPa	400MPa
HRSI-150-18	1.80 ± 0.10	7.08 ± 0.1	6.85 ± 0.1	6.12 ± 0.1
HRSI-100-24	2.40 ± 0.05	7.10 ± 0.1	6.88 ± 0.1	6.15 ± 0.1
HRSI-100-26	2.60 ± 0.05	7.13 ± 0.1	6.92 ± 0.1	6.18 ± 0.1

Sieve Analysis of Sponge Iron Powder

Iron Powder Grade	Size in Microns				
	-212 +150	-150 +106	-106 +75	-75 +53	-53
HRSI-150-18	20 % max	30 %	25 %	20 %	5 % max
HRSI-100-24	5 % max	15 %	35 %	30 %	15 % max
HRSI-100-26	5 %max	10 %	30 %	35 %	20 % max