

Atomized iron powder grades

Chemical Analysis

Test Name	Unit	PM-100.29	PM-100.29H	PM-100.28
		Typical Value		
Fe (Iron)	wt%	99.57	99.57	99.57
C (Carbon)	wt%	0.005	0.005	0.005
Si (Silicon)	wt%	0.03	0.03	0.03
Mn (Manganese)	wt%	0.11	0.1	0.11
P (Phosphorus)	wt%	0.011	0.011	0.01
S (Sulfur)	wt%	0.007	0.005	0.006
HL (Hydrogen loss)	wt%	0.12	0.12	0.14
Acid insoluble	wt%	0.08	0.09	0.08

Physical Analysis

Apparent Density (Hall)	g/cm ³	3.0	3.03	2.9
Flow (Hall)	s/50 g	25	25	28.8
Green Density @ 600 MPa	g/cm ³	7.18	7.21	7.15

Sieve Analysis

+180um	wt%	0	Trace	0
150-180um	wt%	Trace	2	3
106-150um	wt%	22	17	24
75-106um	wt%	27	22	24
45-75um	wt%	28	30	22
-45um	wt%	23	29	27