

Prealloyed powder grades

Chemical Analysis

Test Name	Unit	PM-100.29A1	PM-100.29A2	PM-100.29A3	PM-100.29A4
		Typical Value			
C (Carbon)	wt%	0.004	0.005	0.005	0.002
Si (Silicon)	wt%	0.02	0.03	0.02	0.03
Mn (Manganese)	wt%	0.08	0.26	0.08	0.05
P (Phosphorus)	wt%	0.015	0.019	0.015	0.012
S (Sulfur)	wt%	0.005	0.014	0.006	0.01
Cr(Chromium)	wt%	-	0.2	-	-
Ni (Nickel)	wt%	1.81	0.84	3.91	1.48
Mo (Molybdenum)	wt%	0.47	0.48	0.48	1.3
Co (Cobalt)	wt%	-	0.42	-	-
Cu(Copper)	wt%	-	0.43	-	-
HL(Hydrogen loss)	wt%	0.1	0.24	0.11	0.13

Physical Analysis

Apparent Density (Hall)	g/cm ³	3.01	3.11	2.99	2.98
Flow (Hall)	s/50 g	26.00	26.10	25.5	27.1
Green Density @ 600 MPa	g/cm ³	7.04	6.94	6.93	6.99

Sieve Analysis

+180um	wt%	0	0	Trace	0
150-180um	wt%	2	Trace	4	Trace
106-150um	wt%	18	18	17	22
75-106um	wt%	28	22	29	26
45-75um	wt%	27	31	28	29
-45um	wt%	26	30	22	23