

Diffusion bonded powder grades

Chemical Analysis

PM-100.29D1

PM-100.29D2

PM-100.29D3

PM-100.29D4

PM-100.29D5

Test Name	Unit	Typical Value				
C (Carbon)	wt%	0.001	0.004	0.003	0.003	0.006
Si (Silicon)	wt%	0.03	0.02	0.03	0.03	0.03
Mn (Manganese)	wt%	0.08	0.09	0.09	0.07	0.08
P (Phosphorus)	wt%	0.014	0.014	0.011	0.011	0.011
S (Sulfur)	wt%	0.006	0.006	0.006	0.006	0.01
Cr(Chromium)	wt%	-	-	-	-	-
Mo (Molybdenum)	wt%	0.52	0.53	1.37	0.51	1.493
Ni (Nickel)	wt%	1.73	3.82	3.83	1.51	1.085
Co (Cobalt)	wt%	-	-	-	-	-
Cu(Copper)	wt%	1.58	1.36	2	1.85	1.145
HL(Hydrogen loss)	wt%	0.1	0.07	0.08	0.11	0.14

Physical Analysis

Apparent Density (Hall)	g/cm ³	3.05	3.05	3.08	3.03	3.07
Flow (Hall)	s/50 g	25.8	26	26	25.6	26.1
Green Density @ 600 MPa	g/cm ³	7.16	7.16	7.13	7.18	7.1

Sieve Analysis

+180um	wt%	0	0	0	0	0
150-180um	wt%	2	3	1	3	4
106-150um	wt%	20	23	22	18	22
75-106um	wt%	29	28	24	24	26
45-75um	wt%	27	25	27	28	28
-45um	wt%	22	21	26	27	20