



Chemical and Physical Characteristics of VALIMET Spherical Aluminum Silicon Powders

	S-2	S-5	S-8	S-10	S-15	S-20	S-25
Aluminum	Balance	Balance	Balance	Balance	Balance	Balance	Balance
Silicon, wt. %	11.0-13.0	11.0-13.0	11.0-13.0	11.0-13.0	11.0-13.0	11.0-13.0	11.0-13.0
Iron, wt. %, Max.	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Zinc, wt. %, Max.	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Copper, wt. %, Max.	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Magnesium, wt. %, Max.	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Manganese, wt. %, Max.	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Sieve Analysis							
+80, wt. %, Max.	--	--	--	--	--	--	0.5
+100, wt. %, Max.	--	--	--	--	0.2	--	5.0
+140, wt. %, Max.	--	--	--	--	--	1.0	--
+170, wt. %, Max.	--	--	--	--	--	7.0	--
+200, wt. %, Max.	--	--	--	0.1	15.0	--	--
+250, wt. %, Max.	--	--	--	1.0	--	--	--
+325, wt. %	--	--	--	15.0 Max.	--	90.0 Min.	--
-325, wt. %	99.0 Min.	99.0 Min.	99.0 Min.	85.0 Min.	75.0-85.0	10.0 Max.	10.0 Max.
Microtrac Analysis (Nominal Values)							
90%	7.1	12.5	15.5	48.5	60.0	105.0	180.0
50%	3.5	5.0	8.5	23.0	30.0	70.0	120.0
10%	2.1	2.5	4.0	8.5	13.0	48.5	80.0
Comparable Specifications			B50TF92B	PWA 1355	RR9507/15 PWA 1349 B50TF222A	PWA 1335 B50TF92A	

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