

# Valimet Inc.

Fine Metal Powders

## Spherical Aluminum Silicon Powder

Valimet's standard Aluminum Silicon powders are shown in the table below. Many of these correspond to Pratt & Whitney, General Electric, Boeing, and Rolls Royce Specifications, among others. Custom sizing is available.

Aluminum Silicon powders, made from the Eutectic Alloy 4047, are well suited for erosion resistant coatings, catalytic reactions, and metal matrix composites.

Percentile*	S-5	S-8	S-10	S-15	S-20	S-25	S-100
<b>90 %</b>	15.0	21	50	60	110	145	135
<b>50 %</b>	7.5	11.5	23	30	70	95	75
<b>10 %</b>	3.0	4.5	7.5	13.0	48.5	65	35

\*Nominal Size by Microtrac (microns)

Alloy Chemistry: Elements	Weight %
Aluminum	Balance
Silicon	11.0 - 13.0
Iron	0.8 max.
Copper	0.3 max.
Zinc	0.2 max.
Manganese	0.15 max.
Magnesium	0.1 max.

VALIMET

## Aluminum Silicon Powder Details

Sieve Analysis	S-5	S-8	S-10	S-15	S-20	S-25	S-100
<b>+80</b>						0.5 max.	0.1 max.
<b>+100</b>				0.2 max.		15.0 max.	3.0 max.
<b>+140</b>					1.0 max.		
<b>+170</b>					7.0 max.		
<b>+200</b>			0.1 max.	15.0 max.			
<b>+250</b>			1.0 max.				
<b>+325</b>			15.0 max.		90.0 min.		
<b>-325</b>	99.0 min.	99.9 min.	85.0 min.	75.0 - 85.0	10.0 max.	10.0 max.	20.0 max.