

Investment Casting

Grains

Particle Size Distribution (% Retained):

US Mesh (ASTM No.)	Microns	10/20	30/50	50/100	F100
8	2360	<2			
12	1700	6–25			
16	1180	33–50			
20	850	25–45	<1		
30	600	<13	15–30		
40	425		38–50		
50	300	<4	20–35	<13	
70	212			30–60	
80	180		<10		
100	150			28–51	<15
140	106			4–16	17–40
200	75			<2	19–34
325	45				14–30
	Pan	<3	<2	<1	4–20

Magnetics:

Buck Analyzer **<50 ppm**

Electrical Properties:

Conductivity **<5 μmhos**

Physical Properties:

Apparent Specific Gravity **2.18 – 2.20 g/cc**

Thermal Properties:

LTE Coefficient (20 - 700°C) **0.5 – 0.6 x 10⁻⁶/°C**

Chemical Analysis (%):

	(Typical values)
SiO ₂	>99.7 %
Al ₂ O ₃	<1700 ppm
Fe ₂ O ₃	<350 ppm
TiO ₂	<250 ppm
K ₂ O	<120 ppm
CaO	<75 ppm
Na ₂ O	<50 ppm

Packaging: 25 kg paper bags or 1,000 kg tote sacks

Labeling: Product Name, Lot Number, Total Weight (1,000 kg per pallet)

