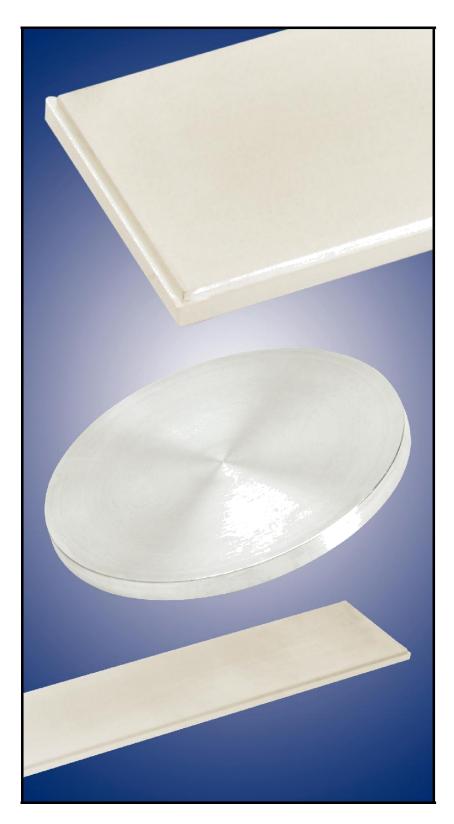
High Purity Aluminum AI







Advanced Engineering Materials

Applications

- Electronics
- Semiconductor
- Flat panel displays

Features

- Competitive pricing
- High purity
- Grain refined, engineered microstructure
- Semiconductor grade

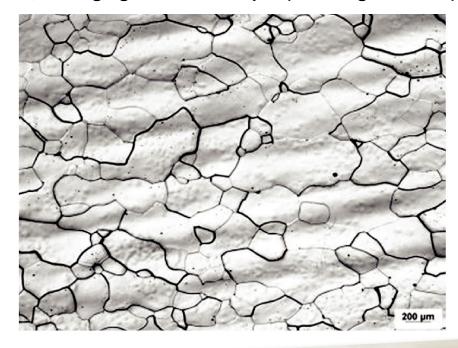
Manufacturing Process

- Refining
 - Three-layer electrolytic process
- Melting and casting
 Electrical resistance furnace Semi-continuous casting
- Grain refinement
 Thormomorphanical tra
- Thermomechanical treatment
- Cleaning and final packaging
 Cleaned for use in vacuum
 Protection from environmental contaminants
 - Protection during shipment

Options

- 99.999% minimum purity
- Semiconductor grade aluminum alloys available
 Al/Si, Al/Cu, Al/Cu/Si
 - AI/SI, AI/Cu, AI/Cu/SI
- Planar circular targets up to 18" (457mm) diameter
- Planar tiles up to 48 (1200mm) X 15.75 (400mm) for larger target configurations
- Smaller sizes also available for R&D applications
- Sputtering target bonding service

Al, average grain size <300µm (50X magnification)





Specifications

Typical Analysis - 99.999% (5N) Purity Metallic Impurities, ppm by weight

Ag	Ca	Cr	Cs	Cu	Fe	К	Li	Mg	Na	Ni	Р
<0.5	<1	<2	<1	<3	<3	<0.4	<0.1	<2	<0.5	<1	<1
Si	Th	Ti	U	V	Zn	Na+K+Li	Th+U	Total			
<0.5	<0.01	<2	<0.01	<1	<1	<1	<0.02	= 5ppm</th <th></th> <th></th> <th></th>			

Non-Metallic Impurities, ppm by weight

С	н	0	Ν	S
<20	<10	<30	<10	<10

Density	2.7 g/cm₃		
Grain Size	300 μm average, 400 μm maximum		
Electrical Resistivity	2.8 x 10-₃ Ω m		
Thermal Conductivity	235 W/m ⁻ K		
Melting Point	660°C		
Appearance	Silvery, metallic		

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