

BUS PLATE® THERMAL & ELECTRICAL CONDUCTIVITY PLATE

AA1370-50



DESCRIPTION OF BUS PLATE®

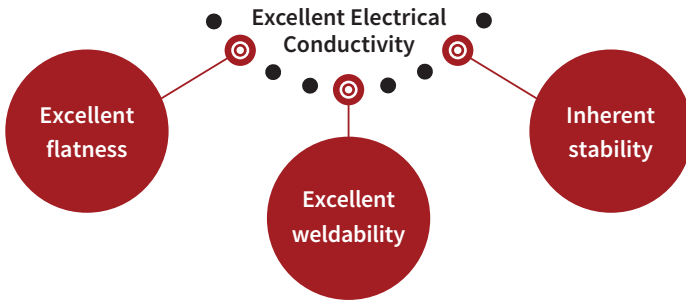
- ✓ Fabricated from prime aluminum cast ingots
- ✓ Excellent Dimensional Stability
- ✓ Excellent Weldability
- ✓ Electrical Conductivity 61.5% IACS
- ✓ Sawed plate and block technology (Derived from PCP Canada ALCA5® and MAX5®)
- ✓ Very High Thermal and Electrical Conductivity

APPLICATION OF BUS PLATE®

Best Aluminum for Electrical Applications

AA1370-50 ALLOYS > 99.7% PRIME METAL / MINIMIZES ENERGY LOSS

BENEFITS OF BUS PLATE®



	Thickness (Max.)	Widths (Max.)	Lengths (Max.)
PLATE SIZES AVAILABLE*	0.25" to 4.00"	Up to 76.5"	Up to 354"
BLOCK SIZES AVAILABLE*	Up to 29.25"	Up to 76.5"	Up to 354"

*DEPENDING ON QUANTITY REQUESTED AND AVAILABLE MATERIAL

AA1370 IS THE BEST ALUMINIUM YOU CAN GET FOR ELECTRICAL APPLICATIONS

Made of prime metal without any recycled alloying material.



AA1370 is a subset of AA1350 aluminum.



99.7% pure aluminum thus increasing conductivity



PCP Aluminum AA1370-50 is annealed (O) since it becomes less prone to deformation with a stress relief heat treatment.



BUS PLATE®

AA1370-50

DESCRIPTION

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BUS PLATE® is fabricated from prime aluminum cast ingots that are heat treated. This product is characterized by an excellent dimensional stability after machining and an excellent weldability. Moreover, it offers very **high thermal and electrical conductivity**. This sawed plate and block technology was derived from PCP Aluminium **ALCA5®** and **MAX5®** which are sold world wide!

APPLICATIONS

This product is especially suitable for electrical applications. It is used for bus bar manufacturing that specializes in the transport and the distribution of electricity. PCP Aluminium developed this product to meet complex electrical requirements in order to minimize energy loss. This product is available in a variety of sizes.

PRECISION

BUS PLATE® cast products offer precision in all dimensional specifications. Including, excellent flatness. The inherent stability of the cast heat treated ingots is reflected in the end product.

PLATE SIZES AVAILABLE

Thickness	0.250" to 4.000"
Width	Up to 76.5"
Length	Up to 354"

BLOCK SIZES AVAILABLE

Thickness	Up to 29.25"
Widths	Up to 76.5"
Lengths	Up to 354"

Others thicknesses, widths and lengths may be available upon inquiry. On request, this product may be milled and coated with protective plastic film on the milled sides. Other tolerances may be applicable.

CHEMICAL COMPOSITION (Weight-%)

Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti+V	B	Ga
99.70	max.	0.10	max.	max.	max.	max.	max.	max.	max.	max.
min.	0.07	0.18	0.01	0.003	0.01	0.003	0.03	0.004	0.006	0.02

PHYSICAL PROPERTIES (Typical values)

Density	0.0975 lb/in ³
Elastic modulus	10 x 10 ⁶ PSI
Coefficient of thermal expansion (68°F-212°F)	13.2 µin/in·°F
Thermal conductivity (68°F)	135 Btu/ft·h·°F
Electrical conductivity (68°F)	61.5% IACS

MECHANICAL STRENGTH (Typical values)

Ultimate Tensile Strength	12000 PSI
Yield Strength	4000 PSI
Elongation	28%

TOLERANCES (Sawed plate)

Thickness	+/-0.020"
Width and Length	+0.125" / -0.000"
Roughness	≤ 1000 µin
Surface	Precision sawed
Edge	Precision sawed

TOLERANCES (Sawed block)

Thickness	+0.125" / -0.000"
Width and Length	+0.250" / -0.000"
Roughness	≤ 1000 µin
Surface condition	Precision sawed
Edge condition	Precision sawed

The information in this publication does not imply a guarantee of properties or capability for fabrication, assembly or application in particular cases. Design rules presented must be take into account by the user. PCP Aluminium reserves the right to modify this data sheet without prior warning.