

# Specification Sheet

## Aluminium Metal Foams

(Al, Purity: 99.9%, Thickness: 5mm)

Stock No: NS6130-12-000140, CAS: 7429-90-5

<b>Product</b>	:	<b>Aluminium Metal Foams</b>
Stock No	:	NS6130-12-000140
CAS	:	7429-90-5
Purity	:	99.9%
Porosity	:	60-90%
Dimension	:	100mm×100mm
Thickness	:	5mm
Pore size	:	2-11mm
Molecular Formula	:	Al
Molecular weight	:	26.98g/mol
Density	:	0.1~0.35 g/cm <sup>3</sup>
Tensile strength	:	1.24 MPa
Shear strength	:	1.31 MPa
Specific heat	:	.895 J/g-C
Compressive Strength	:	44Mpa
Blending Strength	:	27Mpa
Acoustic Absorptive	:	0.48
Tensile Strength	:	1.24 MPa
Modulus of Elasticity	:	103.08 MPa
(Compression)		
Modulus of Elasticity (Tension)	:	101.84 MPa
Shear Modulus	:	199.95 MPa
Bulk Thermal Conductivity	:	5.8 W/m-C
Vickers Pyramid Number	:	35 HV

## Intelligent Materials Pvt. Ltd.

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Bulk Resistivity :  $2.84 \times 10^{-5}$  ohm – in

Main Inspect Verifier : **Manager QC**



**Note:** Product Specification are subject to amendment and may change over time



## Characterization of Aluminium Metal Foams



Aluminium Metal Foams



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