

2099 ALUMINIUM - AMS 4287

2099 is an aluminium lithium alloy. The addition of lithium increases the strength modulus of the material while lowering its density. In T83 temper 2099 has high strength and excellent corrosion resistance with moderate fracture toughness

Density												
2.63g/cm3												
Typical Applications						Related Specifications						
High Strength Applications						AMS 4287						
Chemical Composition (Wt %)												
	Cu	Li	Zn	Mg	Mn	Zr	Ti	Fe	Si	Be	Others (Each)	Others (Total)
Min	2.40	1.60	0.40	0.10	0.10	0.05	-	-	-	-	-	-
Max	3.00	2.00	1.00	0.50	0.50	0.12	0.10	0.07	0.05	0.0001	0.05	0.15
Typical Mechanical Properties												
Section	0.2% Proof Stress		Tensile Strength ksi (MPa)	Elongation (%)	Reduction of area (%)	Hardness						
0.5" - 0.999"	76 (525)		81 (560)	9	-	-						
1" - 2.5"	83 (595)		83 (595)	9	-	-						
Hardness after Heat Treatment												

* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

No liability will be accepted by Dynamic Metals Ltd in respect of any action taken by any third party in reliance of any of the data provided.

The information provided in this datasheet has been taken from multiple recognised sources. No guarantee is given that the information is from the latest issue of these sources and no guarantee is given that the information in the datasheet is accurate or up to date.

Material supplied by Dynamic Metals Ltd may vary significantly from this data but will conform to the relevant and applicable standards. All transactions are subject to Dynamic Metals Ltd latest Terms and Conditions of Sale.

As the products detailed may be used for a wide variety of purposes and as Dynamic Metals Ltd has no control over their use, Dynamic Metals Ltd specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by Dynamic Metals Ltd to any third party is given for that party's assistance only and without liability on the part of Dynamic Metals Ltd.

All transactions are subject to Dynamic Metals Ltd latest Terms and Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions, a copy of which is available by request or by downloading from our website.

General Enquiries

T: +44 (0) 1525 217 556 [\(tel:+4401525217556\)](tel:+4401525217556)

E: sales@dynamicmetalsltd.com [\(mailto:sales@dynamicmetalsltd.com\)](mailto:sales@dynamicmetalsltd.com)



UK Address:

Head Office

40 Eden Way
Chartwell Business Park
Leighton Buzzard
Bedfordshire
LU7 4FY

T: +44 (0)1525 217 556 [\(tel:+441525217556\)](tel:+441525217556)

Conversion Centre

Suite 2 Meadowhall Riverside
Meadowhall Road
Sheffield
South Yorkshire
S9 1BW

T: +44 (0)1143 030 320 [\(tel:+4401143030320\)](tel:+4401143030320)

Registered Office (only)

The Granary
Crowhill Farm Ravensden Road
Wilden
Bedfordshire
MK44 2QS

T: +44 (0)1525 217 556 [\(tel:+441525217556\)](tel:+441525217556)



[\(/media/zn2dbklo/cyber-essentials-certified-plus.png\)](#)



[\(/media/dyelbliq/cyber-essentials-certified.png\)](#)