

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.

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