

7075 ALUMINIUM - AMS 4045

7075 is a very high strength aerospace aluminium through the addition of zinc and copper. Offering superior corrosion resistance, 7075 provides very high yield and tensile strengths based on the temper it is supplied in.

| | | | | | | | | | |
|--|------------|------|------|------|----------------------------------|-------------------------------|-------------------|------------------------------|---------------------------------------|
| Density | | | | | | | | | |
| 2.81g/cm ³ | | | | | | | | | |
| Typical Applications | | | | | | Related Specifications | | | |
| Aircraft Fittings Gears & Shafts Missile Parts Automotive | | | | | | | | | |
| Chemical Composition (Wt %) | | | | | | | | | |
| | Al | Si | Fe | Cu | Mn | Cr | Mg | Zn | Ti |
| Min | Bal | - | - | 1.20 | - | 0.18 | 2.10 | 5.10 | - |
| Max | Bal | 0.40 | 0.50 | 2.00 | 0.30 | 0.28 | 2.90 | 6.10 | 0.20 |
| Typical Mechanical Properties | | | | | | | | | |
| | | | | | 0.2% Proof Stress | Tensile Strength | Elongation | Reduction of area | Typical Hardness (HBW) |
| Content | | | | | 372 - 462 | 462 - 538 | 8 | - | 150 |
| 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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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)



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