

SPECIFICATIONS

Commercial	7075T6
------------	--------

A high strength aluminium alloy offering good corrosion resistance.

CHEMICAL COMPOSITION

Alloy 7075		
Element	% Present	
Zinc (Zn)	5.1 - 6.1	
Magnesium (Mg)	2.1 - 2.9	
Copper (Cu)	1.2 - 2	
Iron (Fe)	0.5 max	
Silicon (Si)	0.4 max	
Manganese (Mn)	0.3 max	
Chromium (Cr)	0.18 - 0.28	
Titanium (Ti)	0.2 max	
Others (Total)	0.15 max	
Other (Each)	0.05 max	
Aluminium (Al)	Balance	

TEMPER TYPES

• T6 - Solution heat treated and artificially aged

SUPPLIED FORMS

- Bar
- Extrusions
- Rod

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.80 g/cm ³
Melting Point	635 °C
Thermal Expansion	23.5 x10 ⁻⁶ /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	130 W/m.K
Electrical Resistivity	40 % IACS

'Typical' Physical Properties are given

MECHANICAL PROPERTIES

7075T6 Drawn Bar Up to 25mm	
Property	Value
Proof Stress	480 Min MPa
Tensile Strength	540 Min MPa
Elongation A50 mm	7 Min %

These properties apply where diameter of round bar, or width of flat bar, or thickness of rectangular bar, or wall thickness of tube/profile is up to 25mm. These figures are usually also available for dimension up to 80mm.

For Extruded (and not then drawn) product the minimum values reduce as dimension increases - For full details please consult the relevant standards and specifications.

[1 OF 2] CONTINUED 🤤



CONTACT

Address:	Aldridge Warehouse No. 1 Wharf Approach Anchor Brook Industrial Park Aldridge Walsall WS9 8BX
Tel:	+44 (0)19 2245 3982
Email:	sales@durbinmetals.co.uk
Web:	www.durbinmetals.co.uk

REVISION HISTORY

Datasheet Updated 25 January 2019

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company 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 the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current 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 on request.