

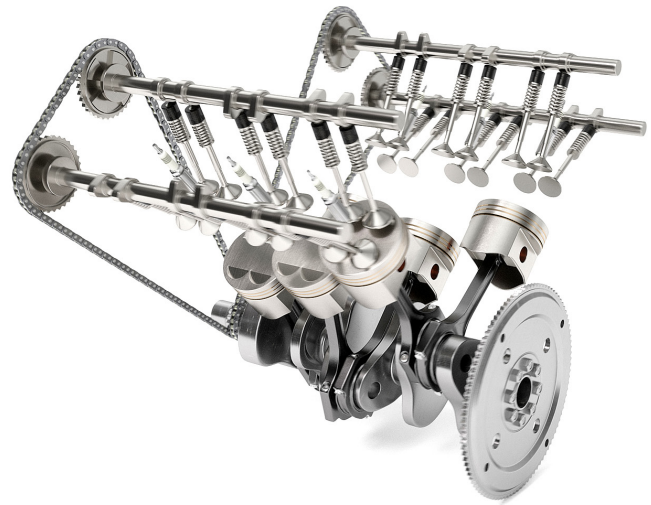
Elektron[®] 675

Product Datasheet

A lightweight magnesium extrusion alloy for motorsport applications

Elektron[®] 675 magnesium alloy offers excellent high temperature performance

Used effectively in temperatures up to 250°C, Elektron[®] 675 is a lightweight, flame-proof material with good overall corrosion resistance and offers superior machinability when compared to aluminium. The product is an extrusion alloy supplied in the T5 temper heat treated condition and is used in a variety of motorsport applications. The alloy is optimised for greater strength and density and is available in extruded bar.



Mechanical Properties (extruded values at ambient temperatures)*

T5A:		T5B:	
LONGITUDINAL			
0.2% Proof Stress	230 MPa	0.2% Proof Stress	260 MPa
Tensile Strength	350 MPa	Tensile Strength	400 MPa
Elongation	5%	Elongation	3%
TRAVERSE			
0.2% Proof Stress	200 MPa	0.2% Proof Stress	230 MPa
Tensile Strength	300 MPa	Tensile Strength	340 MPa
Elongation	1%	Elongation	1%

* up to 100 dia

Characteristics

- Lightweight with ultra high strength
- Good corrosion resistance
- Superior machinability compared to aluminium
- For use in temperatures up to 250°C

Applications

- Chassis and hydraulic components
- Engine casings and gearboxes
- Racing wheels
- Weight reduction design

About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high performance engineering materials to the global motorsport sector. We are supply partners in a range of specialist motorsport markets including Formula 1, Formula E, NASCAR, MOTO GP, WEC & WRC.