Elektron® 675

Smiths High Performance

Lightweight Magnesium Extrusions

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 superior overall corrosion resistance and good machinability compared to aluminium.

The product is an extrusion alloy supplied in the T5 temper heat-treated condition and used in various motorsport applications - further optimisation of the material results in greater strength and density.

Elektron® 675 offers exceptionally high mechanical properties from room temperature to 250°C.

Mechanical Properties:

T5A:		T5B:	
LONGITUDINAL		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		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%

Applications:

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

Characteristics:

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

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About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high-performance engineering materials. We are material supply chain partners supporting **high-technology market sectors**.

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SMITHS HIGH PERFORMANCE

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