

MECHANICAL PROPERTIES	VALUE
Tensile Strength [Mpa]	160 -190
Elongation [%/50mm]	5%
Hardness [Brinell]	50-55
Impact Resistance Izod [Nm]	6
Modulus of Elasticity [Mpa x 10 ³]	71
Shear Strength (N/mm ²)	120
PHYSICAL PROPERTIES	VALUE
Density [g/cm ³]	2.65
Freezing Range [°C]	575-565
Coefficient of Thermal Expansion [per°C at 20-100°C]	0.00002
Thermal Conductivity [cal/cm ² /cm/°C at 25°C]	0.34
Electrical Conductivity [% copper standard at 20°C]	37
COMPOSITION % BY WEIGHT	INGOT [CASTING]
Aluminium	Remainder
Magnesium	0.1
Copper	0.1
Iron (max)	0.6
Lead (max)	0.1
Tin (max)	0.05
Nickel (max)	0.1
Zinc	0.1
Silicon	10.0 - 13.0
Titanium (max)	0.2
Manganese (max)	0.5

We hope you find this document helpful; please visit the “Zinc or Aluminium” section in the bottom of our High Pressure Die Casting page for more useful information.

[VIEW HERE](#)

Please feel free to contact one of the BSC team with any questions.

Call 01922 710 070 www.bscdiecasting.co.uk