

MECHANICAL PROPERTIES	VALUE
Tensile Strength [Mpa]	320
Elongation [%/50mm]	1 - 3%
Hardness [Brinell]	85
Impact Resistance Izod [Nm]	3.4
Modulus of Elasticity [Mpa x 10 ³]	71
Shear Strength (N/mm ²)	195
PHYSICAL PROPERTIES	VALUE
Density [g/cm ³]	2.79
Freezing Range [°C]	580-520
Coefficient of Thermal Expansion [per°C at 20-100°C]	0.000021
Thermal Conductivity [cal/cm ² /cm/°C at 25°C]	0.23
Electrical Conductivity [% copper standard at 20°C]	24
COMPOSITION % BY WEIGHT	INGOT [CASTING]
Aluminium	Remainder
Magnesium	0.3
Copper	3 - 4
Iron (max)	1.3
Lead (max)	0.3
Tin (max)	0.2
Nickel (max)	0.5
Zinc	3.0
Silicon	7.5 - 9.5
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.

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

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