

MECHANICAL PROPERTIES	VALUE
Tensile Strength [Mpa]	328
Elongation [%/50mm]	7%
Hardness [Brinell]	91
Impact Strength [Joules]	65
Modulus of Elasticity [Mpa x 10 <sup>3</sup> ]	85.5
Yield Strength [Mpa]	269
Fatigue Strength [Mpa]	57
PHYSICAL PROPERTIES	VALUE
Density [g/cm <sup>2</sup> ]	6.6
Melting Range [°C]	380-386
Coefficient of Thermal Expansion [100-200°C um/mm/°C]	27.4
Thermal Conductivity [W/m/°C]	108.9
Electrical Conductivity [%IACS]	26
COMPOSITION % BY WEIGHT	INGOT [CASTING]
Aluminium	3.9-4.3 [3.7-4.3]
Magnesium	0.03-0.06 [0.02-0.06]
Copper	0.71-1.1 [0.7-1.2]
Iron (max)	0.035 [0.05]
Lead (max)	0.004 [0.005]
Cadmium (max)	0.003 [0.004]
Tin (max)	0.0015 [0.002]
Nickel (max)	-
Zinc	Balance

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.

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