

## ALUMINUM AlSi10 Mg

**APPLICATIONS:** Prototype castings, Lightweight enclosures.

**CHEMICAL COMPOSITION:** Si (9.0-11.0 wt-%) Fe (<0.25 wt-%) Cu (<0.05 wt-%) Mn (<0.1 wt-%) Mg (0.25-0.45 wt-%) Ni (<0.05 wt-%) Zn (<0.10 wt-%) Pb (<0.02 wt-%) Sn (<0.05 wt-%) Ti (<0.15 wt-%)

**DENSITY:** 99.7%

	ISO 6892 1:2009 B	DMLS-SLM (As built)	DMLS-SLM (Heat Trated)
<b><u>MECHANICAL PROPERTIES:</u></b>			
<b>0.02% Yeld (MPa)</b>	<b>230</b>	<b>250</b>	<b>170</b>
<b>Ultimate Tensile (MPa)</b>	<b>405</b>	<b>350</b>	<b>330</b>
<b>Elongation (%)</b>	<b>3,5</b>	<b>1,5</b>	<b>3</b>
<b>Hardness (HV 0.5)</b>	<b>115</b>	<b>110</b>	<b>110</b>