

Mechanical Characteristics

AlSi7Mg0.6 – EN-AC 42200

Raw Output Machine

Orientation	Yield Strength Rp0.2 (MPa)		Tensile Strength Rm (MPa)		Elongation at Break A% (%)	
	Minimum	Average	Minimum	Average	Minimum	Average
XY	259	267	374	383	6	6.5
Z	215	240	364	381	3.2	3.8

Thermal treatment (2 hours, 300°C)

Orientation	Yield Strength Rp0.2 (MPa)		Tensile Strength Rm (MPa)		Elongation at Break A% (%)	
	Minimum	Average	Minimum	Average	Minimum	Average
Z	142	146	240	242	11	12

Thermal Treatment T6

Orientation	Yield Strength Rp0.2 (MPa)		Tensile Strength Rm (MPa)		Elongation at Break A% (%)	
	Minimum	Average	Minimum	Average	Minimum	Average
XY	291	293	349	351	8	10.2
Z	282	287	339	341	7.5	7.5