

Standard: SS-EN 1676 and SS-EN 1706

Alloy group: AISi10Mg

Alloy designation: EN AB and EN AC 43200

**CHEMICAL COMPOSITION % - EN 1676**

Alloy	Elements												
	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Each	Total
EN AB-43200	min	9,0				0,25							
	max	11,0	0,55	0,30	0,55	0,45	-	0,15	0,35	0,10	-	0,15	0,05

**MECHANICAL PROPERTIES FROM SEPARATELY CAST TEST PIECES - EN 1706**

Casting process	Temper designation	Tensile strength		Yield strength		Elongation		Brinell hardness	
		Rm		Rp0,2		A		HBW	
		MPa min.		MPa min.		% min.		min.	
Sand	F	160		80		1		50	
	T6	220		180		1		75	
Permanent mould	F	180		90		1		55	
	T6	240		200		1		80	
High pressure die casting									

**MECHANICAL AND OTHER PROPERTIES - EN 1706**

Fluidity	A	Ability to be polished	C
Resistance to hot tearing	A	Strength at room temperature	B
Pressure tightness	B	Strength at elevated temperature at 200 °C	C
Machinability as cast	B/C	Ductility (Shock resistance)	C
Machinability after heat treatment	B	Linear thermal expansion 10 <sup>-6</sup> /K 293K373 K	21
Resistance to corrosion	B/C	Electrical conductivity MS/m	16 to 24
Decorative anodizing	E	Thermal conductivity W/(m K)	130 to 170
Ability to be welded	A	Fatigue resistance MPa	80 to 110

A: Excellent B: Good C: Fair D: Poor E: Not advisable F: Unsuitable