

Standard: SS-EN 1676 and SS-EN 1706

Alloy group: AISi10Mg

Alloy designation: EN AB and EN AC 43400

CHEMICAL COMPOSITION % - EN 1676

Alloy	Elements												
	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Each	Total
EN AB-43400	min	9,0	0,45			0,25							
	max	11,0	0,9	0,08	0,55	0,50	-	0,15	0,15	0,15	0,05	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					
Permanent mould					
High pressure die casting	F	240	140	1	70

MECHANICAL AND OTHER PROPERTIES - EN 1706

Fluidity	A	Ability to be polished	B/C
Resistance to hot tearing	A	Strength at room temperature	B
Pressure tightness	C	Strength at elevated temperature at 200 °C	C
Machinability as cast	B	Ductility (Shock resistance)	C
Machinability after heat treatment	-	Linear thermal expansion 10 ⁻⁶ /K 293K373 K	21
Resistance to corrosion	B/C	Electrical conductivity MS/m	16 to 21
Decorative anodizing	E	Thermal conductivity W/(m K)	130 to 150
Ability to be welded	C	Fatigue resistance MPa	60 to 90

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