

Standard: SS-EN 1676 and SS-EN 1706

Alloy group: AISi

Alloy designation: EN AB and EN AC 44200

CHEMICAL COMPOSITION % - EN 1676

Alloy	Elements													
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Each	Total
EN AB-44200	min	10,5												
	max	13,5	0,40	0,03	0,35	-	-	-	0,10	-	-	0,15	0,05	0,15

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	150		70		5		50	
Permanent mould	F	170		80		6		55	
High pressure die casting									

MECHANICAL AND OTHER PROPERTIES - EN 1706

Fluidity	A	Ability to be polished	D
Resistance to hot tearing	A	Strength at room temperature	D
Pressure tightness	A	Strength at elevated temperature at 200 °C	C
Machinability as cast	C	Ductility (Shock resistance)	A
Machinability after heat treatment	-	Linear thermal expansion 10 ⁻⁶ /K 293K373 K	20
Resistance to corrosion	B	Electrical conductivity MS/m	17 to 24
Decorative anodizing	E	Thermal conductivity W/(m K)	140 to 170
Ability to be welded	A	Fatigue resistance MPa	60 to 90

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