

# Material: BDS EN 1706 AC-44300

## Standard Specification for Aluminium and Aluminium Alloys - Castings

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** BDS EN 1706 Aluminium and Aluminium Alloys - Castings

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.100 max.	As-Cast	
Iron	Fe %	1.000 max.		
Manganese	Mn %	0.550 max.		
Silicon	Si %	10.500 - 13.500		
Titanium	Ti %	0.150 max.		
Zinc	Zn %	0.150 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	240 min.
			Yield Strength in Mpa	130 min.
			Elongation in %	1 min.
			Reduction of Area in %	-
			Hardness in HB	60 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-44300	ASME	USA	Casting
EN AC-44300	DIN	Germany	Casting
EN AC-44300	SFS	Finland	Casting
EN AC-44300	BS	British	Casting
EN AC-44300	UNE	Spain	Casting
EN AC-44300	UNI	Italy	Casting
Al Si12(Fe)	ISO	International	Casting

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