

Material: AS 1874 319

Standard Specification for Aluminium and Aluminium Alloys - Ingots and Castings

Group: Non-Ferrous Aluminium Alloy

Sub Group: AS 1874 Aluminium and Aluminium Alloys - Ingots and Castings

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

Belongs to the Industry: Ingot and Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.800 - 1.300	As-Cast	
Iron	Fe %	0.700 max.		
Magnesium	Mg %	0.800 - 1.300		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	1.000 - 2.500		
Lead	Pb %	0.150 max.		
Silicon	Si %	11.000 - 13.000		
Tin	Sn %	0.200 max.		
Titanium	Ti %	0.200 max.		
Chromium	Cr %	0.100 max.		
Zinc	Zn %	0.250 max.		
Other	Ot%	0.200 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	215 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AC8A	JIS	Japan	Casting
A-S12UN	AFNOR NF	France	Casting
AA319	AS	Australia	Ingot and Casting
LM13	BS	British	Ingot and Casting
Alsi12NiCuMg	CSN	Czech Republic	Casting
-	-	-	-
-	-	-	-

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