

Material: IS 7793 4928-B

Standard Specification for Aluminium Alloys for IC Engine Pistons

Group: Non-Ferrous Aluminium Alloy

Sub Group: IS 7793 Aluminium Alloys for IC Engine Pistons

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.800 - 1.500	As-Cast	
Magnesium	Mg %	0.800 - 1.300		
Silicon	Si %	23.000 - 26.000		
Iron	Fe %	0.700 max.		
Manganese	Mn %	0.200 max.		
Nickel	Ni %	0.800 - 1.300		
Chromium	Cr %	0.300 - 0.600		
Lead	Pb %	0.050 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.200 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	165 - 205
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	90 - 125
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM29	BS	British	Ingot and Casting
393.0	AA	USA	Ingot and Casting
A039300	UNS	USA	Casting
393.0	NBR	Brazil	Casting
Vanasil	AA	USA	Casting
-	-	-	-
-	-	-	-

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