

Material: IS 7793 4928-A

Standard Specification for Aluminium Alloys for IC Engine Pistons

Group: Non-Ferrous Aluminium Alloy

Sub Group: IS 7793 for 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	
Iron	Fe %	0.700 max.		
Magnesium	Mg %	0.800 - 1.300		
Manganese	Mn %	0.200 max.		
Nickel	Ni %	0.800 - 1.300		
Lead	Pb %	0.050 max.		
Silicon	Si %	17.000 - 19.000		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	1.000 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	175 - 215
			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	
LM28	BS	British	Ingot and Casting	
49285	IS	India	Casting	
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-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	

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