



## Material - IS7793 49285

### 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	<b>Mechanical Properties</b> Tensile Strength in Mpa      175 - 215 Yield Strength in Mpa      - Elongation in %      - Reduction of Area in %      - Hardness in HB      90 - 125 Impact in Joule      -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4928-A	IS	India	Casting
LM28	BS	British	Ingot and Casting
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.