

# Material: ANSI/AA F3D.20S-F

## Specification Standards for Die Castings

**Group:** Non-Ferrous Aluminium Alloy Sub

**Group:** ANSI/AA for Die Castings

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Silicon	Si %	9.500 - 10.500	As-Cast	
Iron	Fe %	0.800 - 1.200		
Copper	Cu %	3.000 - 3.500		
Magnesium	Mg %	0.300 - 0.500		
Manganese	Mn %	0.500 - 0.800		
Nickel	Ni %	1.000 - 1.500		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.050 max.		
Other	Ot%	0.100 max.		
Aluminium	Al %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      352 min. Yield Strength in Mpa      303 min. Elongation in %      0.4 min. Reduction of Area in %      - Hardness in HRB      82 min. Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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