

# Material: JIS SCS 23

## Standard Specification for Austenitic Stainless Steel Castings for General Application

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** JIS SCS 23 Austenitic Stainless Steel Castings for General Application

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

**Grade Belongs to the Industry:** Centrifugal Cast, Steel, Pipes

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	19.000 - 22.000
Nickel	Ni %	27.500 - 30.000
Molybdenum	Mo %	2.000 - 3.000
Copper	Cu %	3.000 - 4.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	390 min
Yield Strength in Mpa	165 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	183 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4500 DIN	DIN	Germany	Casting
SA-351 CN7M	ASME	USA	Casting
G X 5 NiCrCuMo 29-21	UNI	Italy	Casting
F.8417	UNE	Spain	Casting
A744 CN7M	ASTM	USA	Casting
A743 CN7M	ASTM	USA	Casting
A351 CN7M	ASTM	USA	Casting

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