

## Material: DIN 1.4823

### Standard Specification for Heat Resisting Steel Castings

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4823 Heat Resisting Steel Castings

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 - 0.500	As - Cast	
Silicon	Si %	1.000 - 2.500		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	25.000 - 28.000		
Nickel	Ni %	3.000 - 6.000		
Cobalt	Co %	0.500 max.		
Niobium	Nb %	0.200 max.		
Vanadium	V %	0.080 max.		
Tungsten	W %	0.200 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	200 - 300
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
452 C 11	BS	British	Casting
J92605	UNS	USA	Casting
G X 35 Cr 28	UNI	Italy	Casting
40 CrNiSi 25-4	MSZ	Hungary	Casting
G X 40 CrNiSi 27-4	DIN	Germany	Casting
A297 Grade HD	ASTM	USA	Casting
A297 Grade HC	ASTM	USA	Casting

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