

# Material: DIN G X 40 CrNiSi 27-4

## Standard Specification for Heat Resisting Steel Castings

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 17465 Heat Resisting Steel Castings

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.300 - 0.500
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.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast

Mechanical Properties	
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
1.4823	DIN	Germany	Casting
G X 35 Cr 28	UNI	Italy	Casting
40 CrNiSi 25-4	MSZ	Hungary	Casting
J92605	UNS	USA	Casting
A297 Grade HD	ASTM	USA	Casting
A297 Grade HC	ASTM	USA	Casting

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