

# Material: STAS OTA 23 VMoCr 120

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** STAS OTA 23 VMoCr 120 Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.260	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.400		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	11.500 - 12.500		
Molybdenum	Mo %	1.000 - 1.200		
Nickel	Ni %	0.700 - 1.000		
Vanadium	V %	0.200 - 0.400		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4931	EN	European Union	Casting
1.4931	DIN	Germany	Casting
1.4931	DIN	Germany	Casting
GX23CrMoV12-1	EN	European Union	Casting
GX23CrMoV12-1	AFNOR NF	France	Casting
G-X22CrMoV121	ONORM	Australia	Casting
GX23CrMoV12-1	UNI	Italy	Casting

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