

# 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		
Carbon	C %	0.200 - 0.260
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
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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