GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A232

Standard Specification for Chromium-Vanadium Alloy Steel Valve Spring Quality Wire

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A232 Chromium-Vanadium Alloy Steel Valve Spring Quality Wire

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Wire

Chemical Composition		
Carbon	C %	0.480 - 0.530
Manganese	Mn %	0.700 - 0.900
Phosphorus	P %	0.020 max.
Sulphur	S %	0.035 max.
Silicon	Si %	0.150 - 0.350
Chromium	Cr %	0.800 - 1.100
Vanadium	V %	0.150 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing

Mechanical Properties	
Tensile Strength in Mpa	1320 - 1460
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	40 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K15048	UNS	USA	Steel
K15047	UNS	USA	Steel
A 231	ASTM	USA	Wire
S 204	B.S.	United Kingdom	Wire
970-5 735 A 50	B.S.	United Kingdom	Steel
J 132	SAE	USA	Wire
SA-232	ASME	USA	Wire

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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