

## Material: SAE NV 2

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Valve

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE NV 2 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Valve

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

**Grade Belongs to the Industry:** Valve

| Chemical Composition |      |               | Heat Treatment  |  |
|----------------------|------|---------------|---|--|
| Carbon               | C %  | 0.430 - 0.510 | As Raw or Annealing or Normalizing or Hardening and Tempering   |  |
| Manganese            | Mn % | 1.350 - 1.650 |   |  |
| Phosphorus           | P %  | 0.040 max.    |   |  |
| Sulphur              | S %  | 0.050 max.    |   |  |
| Iron                 | Fe % | Balance       |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 1240 min.<br>Yield Strength in Mpa 1140 min.<br>Elongation in % 15 min.<br>Reduction of Area in % 40 min.<br>Hardness in HRC 40 max.<br>Impact in Joule - |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |

| Cross Reference Table |          |         |   |
|-----------------------|----------|---------|---|
| Material              | Standard | Country | Grade Belong to the Industry                      |
| G15470                | SAE      | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1547                  | SAE      | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1547                  | SAE      | USA     | Bar and Steel                                     |
| SMnC443               | JIS      | Japan   | Steel   |
| SMnC443               | SAE      | USA     | Valve   |
| A 576 15L47           | ASTM     | USA     | Steel and Bar                                     |
| A 510 1547            | ASTM     | USA     | Wire Rod, Round Wire and Steel                    |

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