

# 9CR1MO

## Grade

9Cr1Mo, T9, ASTM A182, UNS S50400, ASTM A213 (analysis)

## Type

Martensitic grade of steel containing 9%Cr and 1%Mo. Supplied normally in the hardened and tempered condition.

### Composition

Element	Weight%
Carbon	0.15 max
Silicon	0.25 - 1
Manganese	0.3 - 0.6
Phosphorus	0.025 max
Sulphur	0.025 max
Molybdenum	0.9 - 1.1
Chromium	8 - 10
Manganese	0.3 - 0.6

## Application

tubulars, structural and pressure containing parts. Also used in boilers and heat exchangers. Limited use in power plant components.

Property	Values
0.2% Yield Strength	80 KSI min (552 MPA min)
Ultimate Tensile Strength	95 KSI min (655 MPA min)
Elongation	20
Reduction of area	40% min
Hardness	22 HRC max