

Forged material Data sheet

Professional Cr-Mo Flange manufacturer, please send

inquiry to bill@cnpipelinefitting.com

ASTM A182 Grade F11 1-1/4%Chrome 1/2%Moly 16CrMo4-4, 1.7337, UNS K11597, ASME SA182 F11.

Applications: Non-corrosive applications including water, oil and gases at temperatures between -20°F (-30°C) and +1100°F (+593°C)

Weldability easy to weld

Heat Treatment; anneal, normalized and temper (NT)

Normalizing :900°C, air cool or furnace cool, Tempering : 620°C

A182 F11 Class 1, A182 F11 Class 2

Steel Grade	ATSM182	
	F11 Class 2 (F11-2)	F11 Class 1 (F11-1)
UNS No	K11572	K11597
Carbon (C)	0.10~0.20	0.05~0.15
Manganese (Mn)	0.30~0.80	←
Silicon (Si)	0.50~1.00	←
Chemical Composition(%)	Phosphorus (P)	0.040 max ←
	Sulfur (S)	0.040 max ←
	Chromium (Cr)	1.00~1.50 ←
	Molybdenum (Mo)	0.44~0.65 ←
Proof Stress(N/mm ²)	275 min	205 min
Tensile Strength(N/mm ²)	485 min	415 min
Hardness (HB)	143~207	121~174
Elongation(% , min)	20	20

Reduction of area (% , min)

30

45

ASTM A182 Alloy Steel F11 Flanges Specification

Specifications	ASTM A182 / ASME SA182
Dimensions	ANSI/ASME B16.5, B 16.47 Series A & B, B16.48, BS4504, BS 10, EN-1092, DIN, etc.
Standard	ANSI Flanges, ASME Flanges, BS Flanges, DIN Flanges, EN Flanges, etc.
Size	1/2" to 60"
Flange Face Type	Flate Face (FF), Raised Face (RF), Ring Type Joint (RTJ)
Class / Pressure Rating	150#, 300#, 600#, 900#, 1500#, 2500#, PN6, PN10, PN16, PN25, PN40, PN64 etc.

Alloy Steel F11 Flange Standards :

ASTM Standard Alloy Steel F11 Flanges	A182 F11 Alloy Steel Class 150 lbs Flanges, Class 300 Lbs AS F11 Flanges, Class 600 Lbs ASTM A182 Alloy Steel F11 Flanges, ANSI B16.5 CrMo 900# Flanges, ASME B16.5 Alloy Steel F11 1500# Flanges, Class 2500 Lbs Chrome Moly A182 F11 Flange, ANSI B16.47 Series A or MSS SP-44 CrMo F11 Flanges, ANSI B16.47 series B or API-605 Alloy Steel A182 F11 Flange, ANSI B16.48 Alloy Steel F11 Flanges, ANSI B16.36 AS A182 F11 Flanges
DIN Standard Alloy Steel F11 Flanges	DIN Alloy Steel F11 Flange, DIN 2527, DIN 2566, DIN 2573, DIN 2576, DIN 2641, DIN 2642, DIN 2655, DIN 2656, DIN 2627, DIN 2628, DIN 2629, DIN 2631, DIN 2632, DIN 2633, DIN 2634, DIN 2635, DIN 2636, DIN 2637, DIN 2638, DIN 2673 Alloy Steel F11 Flanges
JIS Standard Alloy Steel F11 Flanges	JIS Alloy Steel F11 Flange, JIS B2220 5K, JIS B2220 10K, JIS B2220 16K Flanges, JIS B2220 20K Alloy Steel F11 Flanges
EN Standard Alloy Steel F11 Flanges	EN Alloy Steel F11 Flange, EN 1092-1 AS F11 Flanges
BS 4504 Alloy Steel F11 Flanges	BS4504 PN 6, BS 4504 PN 10, BS4504 PN 16, BS4504 PN 25, BS4504 PN 40, BS 4504 PN 64, BS 4504 PN 100, BS 4504 PN 160, BS 4504 PN 250 Alloy Steel F11 Flanges
BS Standard Alloy Steel F11 Flanges	BS Alloy Steel F11 Flanges, BS Table D / BS Table E / BS Table F / BS Table H / BS 10 Alloy Steel F11 Flanges