

## Forged material Data sheet

Professional Cr-Mo Flange manufacturer, please send

inquiry to [bill@cnpipelinefitting.com](mailto:bill@cnpipelinefitting.com)

ASTM A182 Grade F5 5%Chrome 1/2%Moly

ASTM A182 Grade F5 Non-corrosive applications at temperatures between -20°F (-30°C) and +1200°F (+650° C)

**Weldability** easy to weld

**Heat Treatment**; anneal, normalized and temper (NT)

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

### A182 F5 Flange Standards :

ASTM Standard Alloy Steel F5 Flanges	F5 Alloy Steel Class 150 lbs Flanges, Class 300 Lbs AS F5 Flanges, Class 600 Lbs ASTM A182 Alloy Steel F5 Flanges, ANSI B16.5 CrMo 900# Flanges, ASME B16.5 Alloy Steel F5 1500# Flanges, Class 2500 Lbs Chrome Moly A182 F5 Flange, ANSI B16.47 Series A or MSS SP-44 CrMo F5 Flanges, ANSI B16.47 series B or API-605 Alloy Steel A182 F5 Flange, ANSI B16.48 Alloy Steel F5 Flanges, ANSI B16.36 AS A182 F5 Flanges
DIN Standard Alloy Steel F5 Flanges	DIN Alloy Steel F5 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 F5 Flanges
JIS Standard Alloy Steel F5 Flanges	JIS Alloy Steel F5 Flange, JIS B2220 5K, JIS B2220 10K, JIS B2220 16K Flanges, JIS B2220 20K Alloy Steel F5 Flanges
EN Standard Alloy Steel F5 Flanges	EN Alloy Steel F5 Flange, EN 1092-1 AS F5 Flanges
BS 4504 Alloy Steel F5 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 F5 Flanges
BS Standard Alloy Steel F5 Flanges	BS Alloy Steel F5 Flanges, BS Table D / BS Table E / BS Table F / BS Table H / BS 10 Alloy Steel F5 Flanges

### ASME SA182 F5 Alloy Steel Pipe Flanges Equivalent Grades

STANDARD	UNS	WERKSTOFF NR.	Trade Name
Alloy Steel A182 F5	K41545	1.7362	5Cr-1/2Mo

## Chrome-Moly Steel F5 Flanges Chemical Composition

Grade	C	Mn	Si	P	S	Cr	Mo
Alloy Steel A182 F5	0.15 max	0.3-0.6	0.5	0.03	0.03	4-6	0.44-0.65

## A182 Steel F5 Flanges Mechanical Properties

Grade	Tensile Strength (MPa) min	Yield Strength (MPa) min	0.2% Proof	Elongation (% in 50mm) min
Alloy Steel F5	275	485		20
<b>Specifications</b>	ASTM A182 / ASME SA182			
<b>Dimensions</b>	ANSI/ASME B16.5, B 16.47 Series A & B, B16.48, BS4504, BS 10, EN-1092, DIN, etc.			
<b>Standard</b>	ANSI Flanges, ASME Flanges, BS Flanges, DIN Flanges, EN Flanges, etc.			
<b>Size</b>	1/2" to 60"			
<b>Flange Face Type</b>	Flate Face (FF), Raised Face (RF), Ring Type Joint (RTJ)			
<b>Class / Pressure Rating</b>	150#, 300#, 600#, 900#, 1500#, 2500#, PN6, PN10, PN16, PN25, PN40, PN64 etc.			