

ASTM A182 F22 Flange Specification

A182 F22 Weld neck Flange, A182 F22 slip on Flange, A182 f22 Blind Flange

We are a professional manufacturer of steel forged A182 F22 flange in China, A182 F22 Blind flange, ASTM A182 F22 weld neck flange, ANSI B16.5 A182 F22 Slip on Flange, Chrome Moly Alloy Steel Flange, A182 F22 Flange

ASTM A182 F22 is a chromium-molybdenum (Cr-Mo) alloy steel grade mainly used for **high-temperature and high-pressure service**. Weld Neck Flanges (WNRF) made from F22 are widely applied in **power generation, oil & gas, refineries, and petrochemical plants**.

A182 F22 Chrome moly alloy flanges offer improved levels of chromium and molybdenum. The added chromium helps increase the steel's hardenability and corrosion resistance, whereas the increased molybdenum helps bolster its toughness and corrosion resistance.

ASTM A182 F22 flanges are extremely ductile, strong and tough and easy to weld and offer oxidation and scaling resistance, which matches with ASTM A335 Gr P22 alloy steel pipes, A234 WP22 Pipe fitting

A182 F22 Flange also known as **2 1/4 Chrome Flange**

2 1/4 Chrome F22 Class 1 K21590 A182 / SA182

F22 is a low alloy steel containing nominally 2.25% Chromium. A182 F22 is widely used in the oil patch wellhead applications for connectors,

hangers and block valves. Hardness levels up to 22 HRC are approved to NACE MR0175. The grade is often used as the base metal for clad components.

If supplied to ASTM A182 in the normalised and tempered condition, the 0.2% Proof Stress minimum is 30 KSI. limited to a Rockwell C -22 maximum for compliance NACE MR 01-75/ISO 15156 (for use in hydrogen sulfide environments)

Dimensions : ANSI Flanges, ASME Flanges, BS Flanges, DIN Flanges, EN Flanges etc.

Flange type:

A182 F22 Weld neck flange,A182 F22 Slip on Flange,A182 F22 Blind Flange,A182 F22 socket weld flanges.

Class : 150 LBS, 300 LBS, 600 LBS, 900 LBS,
1500 LBS, 2500 LBS, DIN Standard ND-6,10, 16,
25, 40 Etc.

Size : 1/8" NB TO 60"NB.

Flange Face Type : Flate Face (FF), Raised Face
(RF), Ring Type Joint (RTJ)

ANSI : ANSI B16.5, ANSI B16.47, MSS SP44,
ANSI B16.36, ANSI B16.48

BS : BS4504, BS4504, BS1560, BS10

ASTM A182 F22 FLANGES SPECIFICATION

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Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

Chemical Composition of Grade A182 F22 Flanges

Grade	C	Mn	Si	S	P	Cr	Mo
A182 F22	0.05 – 0.15	0.3 – 0.6	0.5	0.03	0.045	0.8 – 1.25	0.044 – 0.65

Mechanical Properties of ASTM A182 F22 Flanges

Grade	Tensile Strength (Mpa)	Yield Strength (Mpa)	Elongation %
A182 F22	205	415	20

Heat Treatment of A182 F22 Flanges

F22 flanges are **normalized and tempered** to ensure optimal mechanical strength and creep resistance under high-temperature service.

Test Certificates: Manufacturer Test Certificate as per EN 10204 / 3.1

How to order our A182 F22 Flanges,

Example#1, ASME B16.5 WNRF Flange, ASTM A182 F22, 1 Inch, CL600

Example#2, ASME B16.5 Weld neck Flange, Raise face, ASTM A182 F22, 6 Inch, CL600

Example#3, ASME B16.5 blind Flange RF, ASTM A182 F22 Flange , 6 Inch, CL300

