

# ASTM A234 WP11 material data

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## Manufacturer of Elbow A234 WP11 Cl2 and Cl1 Fittings, Refer weight chart of ASTM A234 Gr.WP11 Cl.1 Fittings

A234 WP11 Material is a wrought pressure grade material that is used for various welding applications. The material can come in different forms such as fittings, flanges, pipes and others. C&N is a leading A234 WP11 Material manufacturer and we make fittings in this grade of material. There are reducers, tees, elbows, crosses, caps, bends, and many other fittings available in this grade of material.

ASTM A234 Grade WP11 is made from carbon, manganese, phosphorus, sulfur, silicon, chromium and molybdenum. This 1% chromium and molybdenum content provides the material with good strength and corrosion resistance. There are three classes in this material. Each of them has different mechanical properties due to the difference in the composition. The A234 WP11 Cl2 has all the ingredients with the maximum carbon limited to 0.2% and manganese to 0.8% where the class 1 material has carbon content limited to 0.15% and manganese to 0.6%. The grade 3 is the strongest of them all with 310MPa minimum yield strength and 690MPa minimum tensile strength.

The A234 WP11 Cl1 has 205MPa minimum yield strength and 585MPa minimum tensile strength where the class 2 possesses a medium 655MPa tensile strength and 275MPa yield strength. The Alloy Steel WP11 Pipe Fittings are wrought fittings. That is the fittings are cast or forged from a single piece of the raw material to form the fittings. There are different fittings such as the Elbow A234 WP11 which is used for changing directions in pipelines. Each of the A234 WP11 Fittings has a different function to apply in an application and the prices vary as well. Please feel free to contact us for more information on the products and pricing.

### ASTM A234 wp11 pipe fittings Production Range

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Grade Specification | Carbon Steel: ASTM/ASME A234 WPB                |
| Type                | Seamless / Welded / Fabricated                  |
| Bending Radius      | R=1D, 2D, 3D, 5D, 6D, 8D, 10D or Custom         |
| Range               | ½” NB to 48”NB in Sch 10s, 40s, 80s, 160s, XXS. |
| Dimensions          | ANSI/ASME B16.9, B16.28, MSS-SP-43.             |

**If Looking for ASTM A234 Grade WP11 Class 2 Fittings at lowest price so Check our Price List in china**

### Buttweld Carbon Steel Pipe Fittings

Seamless/ Welded 100% Radiography Tested

| Products              |                             | Size             |
|-----------------------|-----------------------------|------------------|
| Elbows - Long Radius  | Stub Ends                   | Sizes 1/2" - 48" |
| Elbows - Short Radius | Crosses                     |                  |
| Reducing Elbows       | Reducing Crosses            |                  |
| 45° Elbows            | 180° LR Return Bends        |                  |
| Tees                  | 180° SR Return Bends        |                  |
| Tees                  | Pipe Bends / Piggable Bends |                  |

|                     |                        |  |
|---------------------|------------------------|--|
| Reducers            | Couplings              |  |
| Concentric Reducers | Pipe Nipples           |  |
| Eccentric Reducers  | Forged/Plate Cut Rings |  |
| 3D Elbow            | End Caps               |  |
| 5D Elbow            | Forged / Plate Circles |  |

All Sizes in ASTM A234 Gr WP11 Alloy Steel Pipe Fittings in Stock at Mumbai

## High Pressure Forged Carbon Steel Pipe Fittings

Threaded and Socket Weld Pipe Fittings

| Products      |           | Size                                                                      |
|---------------|-----------|---------------------------------------------------------------------------|
| 90° Elbows    | Couplings | Sizes 1/8" - 4" Pressure Ratings - 2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS |
| 45° Elbows    | Reducers  |                                                                           |
| Street Elbows | Inserts   |                                                                           |
| Tees          | Caps      |                                                                           |
| Crosses       | Unions    |                                                                           |

## ASTM A234 wp11 pipe fittings Chemical Composition

| Grade      | C         | Mn        | P    | S     | Si        | Cr        | Mo        | Ni  | Cu  | V    | Nb   |
|------------|-----------|-----------|------|-------|-----------|-----------|-----------|-----|-----|------|------|
| WPB        | 0.3       | 0.29-1.06 | 0.05 | 0.058 | 0.1min    | 0.4       | 0.15      | 0.4 | 0.4 | 0.08 | 0.02 |
| WPC        | 0.35      | 0.29-1.06 | 0.05 | 0.058 | 0.1min    | 0.4       | 0.15      | 0.4 | 0.4 | 0.08 | 0.02 |
| WP11 CL1   | 0.05-0.15 | 0.30-0.60 | 0.03 | 0.03  | 0.50-1.00 | 1.00-1.50 | 0.44-0.65 | -   | -   | -    | -    |
| WP11 CL2/3 | 0.05-0.20 | 0.30-0.80 | 0.04 | 0.04  | 0.50-1.00 | 1.00-1.50 | 0.44-0.65 | -   | -   | -    | -    |

Shortest delivery time in A234 Gr WP11 Fittings, View updated wp11 fittings Price

## Mechanical properties of ASTM A234 wp11 pipe fittings

| Tensile Requirements                       | WPB       | WPC, WP11CL2 | WP11CL 1  | WP11CL 3  |
|--------------------------------------------|-----------|--------------|-----------|-----------|
| Tensile Strength, min, ksi[MPa]            | 60-85     | 70-95        | 60-85     | 75-100    |
| (0.2% offset or 0.5% extension-under-load) | [415-585] | [485-655]    | [415-585] | [520-690] |
| Yield Strength, min, ksi[MPa]              | 32        | 40           | 30        | 45        |
|                                            | [240]     | [275]        | [205]     | [310]     |



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