

# **Specification requirements for photovoltaic support welded pipes**

What are the requirements for welding a carbon steel pipe?

Welded joints should meet the requirements of a standard such as BS 2971 'Specification for Class II welding of carbon steel pipework for carrying fluids'. Welds should be inspected by an appropriate method depending on the application requirements. Radiography and ultrasonics are widely used where high integrity welds are required.

What welding guidelines should be followed for Cr-Mo steel pressure vessels?

The welding guidelines referenced in API 934-A, API 934-C, and API 934-E shall be followed for welding Cr-Mo steel pressure vessels for high-temperature, high-pressure hydrogen service.

What is a welding specification?

This specification provides requirements, supplementary guidelines and practices for welding and welding related topics for shop and field fabrication, repair and modification of the following: other equipment or component items when referenced by an applicable purchase document.

What are the requirements for gas shielded welding?

The weld and the area around it to a distance of at least 3.3 ft (1 m) shall be protected from inclement weather. The wind speed shall not exceed 0.5 mph (0.2 m/s) in the area where gas shielded welding (GTAW, FCAW-G, GMAW, PAW) is taking place. Acceptable welding processes are given in Table 7.

What are the requirements for a pressure retaining groove weld?

Test laboratories for mechanical, chemical and corrosion testing shall have a certified laboratory system in compliance with ISO/IEC 17025 for the test methods employed. Pressure retaining groove welds shall be full penetration. Except for piping, pressure retaining welds shall, where practical, be double sided.

What are the requirements for welding consumables?

The quantity of consumables in a single lot of SAW and ESW fluxes shall be in accordance with lot classification F2 defined in ASME BPVC Section II Part C or ISO 14344. All welding consumables shall produce welds with mechanical properties that are the same or better as the minimum requirements specified for the base metal.

**Piping Isometric:** When preparing the piping isometric drawing all details including piping material, pipe support tag, pipe size, quantity and materials that would be welded on pipe need to be ...

For pipes produced in single lengths the flattening test shall be made from each end with the welds at 00 and 900. For pipes produced in multiple lengths, tests shall also be made on two ...

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This specification covers the requirements for gas tungsten arc welding (GTAW) and plasma arc welding (PAW) of stainless steel tube and pipe 1/4 in [6 mm] diameter and larger in the ...

The product specification level for line pipe to be supplied as per this specification shall be "PSL2". The Manufacturer shall have a valid license to use API Monogram in accordance with ...

3) Further, Austenitic Stainless Steel Pipes and Tubes can also be supplied in heavily cold worked (HCW) by cold working to at least 35 percent reduction in thickness of both wall and weld prior ...

pipe that attempt to deform the pipe from a circle to an oval. The strength of the pipe wall, known as pipe stiffness, and the support afforded to the pipe by surrounding embedment soils ...

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ASTM A53 pipe encompasses both seamless and welded options, available in black or hot-dipped galvanized finishes. These pipes have a nominal average wall thickness and are designed for applications such as coiling, bending, flanging, ...

In this blog, we will delve into the key aspects of spiral welded pipe specifications, clarifying their dimensions, materials and specific requirements. 1. Pipe size: Spiral welded pipes are ...

requirements of Specification 5L, Forty-Fifth Edition, 2012 for line pipe as Product Specification Level PSL 2. 1.1 Pipe Size (New) This Specification shall be applied to line pipe of size 16" ...

