

ASTM A335 P91 Pipe - Data Sheet

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Supply range

Outside diameter 1/2 inch - 36 inch (12.7 - 914 mm)

Wall thickness 3.0 - 60 mm (SCH 40 - SCH XXS, or by wall thickness)

Length SRL 5.8 m, DRL 11.8 m, or fixed length

Ends Plain end, beveled end

Surface treatment Black varnish, bare, rust preventive oil

Manufacturing process Hot finished seamless

Heat treatment Normalized and tempered (1040 - 1080 °C / 730 - 800 °C)

Delivery standard ASTM A335 / ASME SA335, dimensions to ASME B36.10M

Delivery condition Normalized and tempered

Inspection and documentation

Inspection Inspected by the producing mill's own inspection department, which is independent of production, against the delivery standard above. Third-party inspection - SGS, BV or TUV, or an inspector you send yourself - can be arranged at the mill or before shipment; give us the dates and the scope at the order stage.

Certificate A mill test certificate to EN 10204 3.1 showing the heat number, the chemical composition and the mechanical results is standard on every order. EN 10204 3.2, countersigned by the inspector you nominate, is available on request.

Documents with the goods The mill test certificate and the packing list travel with the shipment, and the heat number is traceable from cast through to the finished product.

Packing Sea-worthy export packing: bundled by size with end protection, corrosion protection on request, stencilled with the size, grade and heat number.

MOQ One bundle or one truckload; mixed sizes within a bundle accepted.

Lead time Counted from order confirmation, not from the enquiry. Stock sizes 7-15 days; mill run or non-stock 4-6 weeks. The delivery window is fixed on the quotation.

How we supply Sourced through partner mills; the producing mill is named on the quotation.

Chemical composition

Element	Range	Element	Range
Carbon, C	0.08 - 0.12	Nickel, Ni	0.40 max
Manganese, Mn	0.30 - 0.60	Aluminium, Al	0.04 max
Phosphorus, P	0.020 max	Vanadium, V	0.18 - 0.25
Sulphur, S	0.010 max	Niobium, Nb	0.06 - 0.10
Silicon, Si	0.20 - 0.50	Nitrogen, N	0.03 - 0.07
Chromium, Cr	8.00 - 9.50		
Molybdenum, Mo	0.85 - 1.05		

Mechanical properties

Grade	Tensile strength	Yield strength	Elongation	Hardness
P91 (ASTM A335)	585 MPa min (85,000 psi)	415 MPa min (60,000 psi)	20% min	250 HBW max

Source

Source: chemical composition requirements of ASTM A335 / ASME SA335, Table 1. The standard is the governing document.

Source: tensile requirements of ASTM A335 / ASME SA335, Table 1. The standard is the governing document.

P91 is normalized at 1040 to 1080 degrees C and tempered at 730 to 800 degrees C, and the properties apply in that condition: 415 MPa minimum yield and 585 MPa minimum tensile. Source: this page's heat treatment and property sections.

Page: <https://mejorsteel.com/standards/astm-a335-p91-pipe/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.