

ASTM A335 P11 Alloy Steel Pipe - Data Sheet

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Supply range

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

Wall thickness 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

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	0.05 - 0.15	Nickel, Ni	0.50 max
Manganese, Mn	0.30 - 0.60	Chromium, Cr	1.00 - 1.50
Phosphorus, P	0.025 max	Molybdenum, Mo	0.44 - 0.65
Sulphur, S	0.025 max		
Silicon, Si	0.50 - 1.00		

Mechanical properties

Grade	Tensile strength	Yield strength	Elongation	Test basis
P11 (ASTM A335)	415 MPa min (60,000 psi)	205 MPa min (30,000 psi)	30% min	Room temperature, longitudinal

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.

P11 and P22 share the same room-temperature strength at 415 MPa tensile and 205 MPa yield, so the step between them buys temperature capability rather than strength. P91 steps up to 585 MPa tensile and 415 MPa yield. Source: this page's P11, P22 and P91 composition and mechanical property table.

Page: <https://mejorsteel.com/standards/astm-a335-p11-pipe/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.