

ASTM A53 Grade B Pipe - Data Sheet

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Supply range

Outside diameter 1/8 inch - 26 inch (10.3 - 660 mm); Type F limited to NPS 1/2 - 4

Wall thickness SCH 10 - SCH 160 and heavier; typically 1.73 - 40 mm

Length SRL 5.8 m, DRL 11.8 m, 20 FT, 40 FT, or random 4 - 12 m

Ends Plain end, beveled end, threaded with coupling

Surface treatment Black, bare, oiled, or hot dip galvanized to ASTM A53

Manufacturing process Type S seamless, Type E electric resistance welded, Type F furnace butt welded

Heat treatment Not required as supplied; available on request

Delivery standard ASTM A53 / ASME SA53

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	Grade A, Type S / E	Grade B, Type S / E	Grade A, Type F
Carbon, C	0.25	0.30	0.25
Manganese, Mn	0.95	1.20	0.95
Phosphorus, P	0.05	0.05	0.05
Sulphur, S	0.045	0.045	0.045
Silicon, Si	no requirement	no requirement	no requirement

Mechanical properties

Grade	Tensile strength min	Yield strength min	Elongation min	Applicable types
Grade A	330 MPa (48,000 psi)	205 MPa (30,000 psi)	35%	Type S, E, F
Grade B	415 MPa (60,000 psi)	240 MPa (35,000 psi)	30%	Type S, E

Source

Source: chemical composition requirements of ASTM A53 / ASME SA53, Table 1. The standard is the governing document.

Source: tensile requirements of ASTM A53 / ASME SA53, Table 1. The standard is the governing document.

The grade letter sets the strength and the type letter sets the seam: Grade A is used for Types S, E and F, while Grade B applies to Types S and E only. Source: this page's composition and tensile tables.

Page: <https://mejorsteel.com/standards/astm-a53-grade-b-pipe/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.