

ASTM A519 Mechanical Tubing - Data Sheet

Mejor Steel, export sourcing for steel pipe and OCTG | <https://mejorsteel.com/get-a-quote/>

Supply range

Outside diameter Up to 12-3/4 in (323.9 mm)

Wall thickness To the order, within the size and tolerance rules of the standard

Length Straight lengths, cut to the ordered length

Ends Plain end, or as specified

Surface As-rolled, pickled and oiled, or as specified

Manufacturing process Seamless, hot-finished or cold-finished

Delivery condition Hot-finished, cold-finished, annealed, normalized, or quenched and tempered, as ordered

Delivery standard ASTM A519 / A519M

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	1026	4130	4140
Carbon, C	0.22 - 0.28	0.28 - 0.33	0.38 - 0.43
Manganese, Mn	0.60 - 0.90	0.40 - 0.60	0.75 - 1.00
Silicon, Si	-	0.15 - 0.35	0.15 - 0.35
Chromium, Cr	-	0.80 - 1.10	0.80 - 1.10
Molybdenum, Mo	-	0.15 - 0.25	0.15 - 0.25

Mechanical properties

Condition	What it gives
Hot-finished	As-rolled structure, lower cost, strength to the standard's hot-finished requirements
Cold-finished	Improved surface and dimensional tolerance, some strength increase from cold work
Annealed	Softest and most uniform, for machining
Normalized	Refined grain, improved toughness
Quenched and tempered	Highest strength and hardness, to the range stated on the order

Source

Source: chemical composition requirements of ASTM A519 / A519M. The standard is the governing document.

Schematic: A519 mechanical properties follow the ordered condition. Hot-finished tube is supplied as-rolled, and cold-finished tube as annealed, normalized, or quenched and tempered, up to 12-3/4 in (323.9 mm) outside diameter. Source: this page's size range and condition table.

Page: <https://mejorsteel.com/standards/astm-a519-mechanical-tube/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.