



[Changzhou Tremem Steel Co., Ltd.](http://www.changzhou-tremem.com)



ASTM A519 Grade 4130 Seamless Tubes

ASTM A519 SA 48MMXID212.73MM WB8102408

ASTM A519 E1026 48MMXID212.73MM WB8102408



ASTM A519 GRADE 4130 4140

MECHANICAL TUBES

ASTM A519 / A519M, ASME SA519 / SA519M is the standard applicable to seamless carbon and alloy steel mechanical tubes.



ASTM A519 4130 and 4140 Mechanical Tubes

ASTM A519 covers several grades of carbon and alloy steel seamless mechanical tubing.

ASTM A519 covers both seamless hot-finished mechanical tubing and seamless cold-finished mechanical tubing in sizes up to and including 12 3/4 in. (323.8 mm) outside diameter for round tubes with wall thicknesses as required.

Standard: ASTM A519 / ASME SA 519

Description Name: ASTM A519 GR.4130 Mechanical tubing; A519 Gr.4140 Mechanical tubing; Grade 4140 ASTM A519 carbon steel tube; ASTM A519 4130 SEAMLESS TUBING; ASTM A519 4140 SEAMLESS TUBING; ASTM A519 GR. 4130 mechanical pipes; ASTM A 519 GR.4140 carbon steel pipe; Grade 4130 SEAMLESS PIPE; ASTM A519 Grade 4140 cold drawn seamless steel tubes; ASTM A519

Gr.4130 pipes and tubing; ASTM A519 SAE4140 seamless tubing; alloy steel tube; carbon steel tube; mechanical tubing; Seamless steel tube; steel tube.

Size: 6mm-323.8mm

Schedule: 10-XXS

Shape: Round or Special sections.

Length: Single random length/ Double random length or as customer's actual request

Grade: SAE 4130 / AISI 4130 / GRADE 4130 / GRADE 4140 / SAE 4140

Condition: The purchaser shall specify a sizing method and, if required, a thermal treatment.

- Sizing Methods:

HF-Hot Finished,

CW-Cold worked,

RT-Rough Turned,

G- Ground.



- Thermal Treatments:

A-Annealed,

N- Normalized,

QT-Quenched and Tempered,

SR-Stress Relieved or Finished Anneal.

ASTM A519 Gr.4130 and Gr.4140 seamless tubing Chemical

Composition (%):

Grade	C	Mn	P	S	Si	Cr	Mo
4130	0.28-0.33	0.4-0.6	0.04 max	0.04 max	0.15-0.35	0.80-1.10	0.15-0.25
4140	0.38-0.43	0.75-1.00	0.04 max	0.04 max	0.15-0.35	0.80-1.10	0.15-0.25

ASTM A519 GR.4130 and Gr.4140 Seamless tubing Mechanical

Properties:

Grade Designation	Conditional	Ultimate strength		yield strength		Elongation in 2in. Or 50mm, %	Rockwell, Hardness B scale
		ksi	Mpa	ksi	Mpa		
4130	HR	90	621	70	483	20	89
	SR	105	724	85	586	10	95
	A	75	517	55	379	30	81
	N	90	621	60	414	20	89
4140	HR	120	855	90	621	15	100
	SR	120	855	100	689	10	100
	A	80	552	60	414	25	85
	N	120	855	90	621	20	100

A519 Gr.4130 an Gr.4140 Mechanical tubing Outside

Diameter Tolerances for round Hot-Finished Tubing:

Outside Diameter Tolerances for Round Hot-Finished Tubing A, B, C		
Outside Diameter Size Range, In.(mm)	Outside Diameter Tolerance, in. (mm)	
	Over (+)	Under (-)
up to 2.999 (76.17)	0.020 (0.51)	0.020 (0.51)
3.000-4.499 (76.20-114.27)	0.025 (0.64)	0.025 (0.64)
4.500-5.999 (114.30-152.37)	0.031 (0.79)	0.031 (0.79)
6.000-7.499 (152.40-190.47)	0.037 (0.94)	0.037 (0.94)
7.500-8.999 (190.50-228.57)	0.045 (1.14)	0.045 (1.14)

ASTM A519 Seamless tubing Mechanical Test Requirements:

- Hardness Test
- Tension Tests
- Nondestructive tests
- Steel Cleanliness
- Hardenability
- Flaring Test

ASTM A519 Mechanical tubing Quality Note:

- Mill test certificates will be issued according to EN10204.3.1B
- All tubes shall be supplied as per applicable ASTM A519 Specification.
- The tubes Shall be Seamless and the test Methods and Definitions for mechanical Testing of Steel Products
- Orders for material under A519 should include the Quantity (Feet, weight, or number of pieces), Name of material (seamless carbon or alloy steel mechanical tubing), Form (round, square, rectangular or special shapes).
- Orders for material under A519 should provide delivery condition (A, N, QT, SR)

SAE4130 and SAE4140 Seamless tubes Packing and Marking

- Packed in bundles, wrapped in plastic, and suitably protected for sea-worthy delivery or as requested.
- Marking should according to MIL-STD-129 for Military agencies and in accordance with Fed. Std. No.123 for civil agencies including not limited: Standard, graded, size, heat no. lot no.

Marking and packing photos:



ASTM A519 Mechanical Tube Marking



ASTM A519 4130 Mechanical Thick Wall Tubes



ASTM A519 4140 Mechanical Hot Finished Pipes



Contact us for a free quotation now.



Read more information about this product

- [*ASTM A519 Grade 4130 4140 Mechanical Tubes*](#)

Related products

- [*ASTM A519 ASME SA519 SAE1010 Seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1020 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1026 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1035 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1045 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE4130 seamless tubes and pipes*](#)
- [*ASTM A179 / ASME SA179 Seamless tubes*](#)
- [*ASTM A192 / ASME SA192 Seamless boiler tubes*](#)
- [*ASTM A210 / ASME SA210 GRADE A1 Seamless tubes*](#)
- [*ASTM A210 / ASME SA210 GRADE C Seamless tubes*](#)

Stainless steel and Duplex

- [*ASTM A269 Stainless Steel Tubes*](#)
- [*ASTM A213 Stainless Steel Tubes*](#)
- [*ASTM A249 Stainless Steel Tubes*](#)
- [*ASTM A270 Sanitary Stainless Tubing*](#)
- [*ASTM A312 Stainless Steel Pipes*](#)
- [*ASTM A789 Duplex Stainless Tubing*](#)

Cold Drawn precision tubes

- [*JIS G3445 STKM11A, STKM12C, STKM12A Steel Tubes*](#)
- [*EN10305-1 Seamless Cold Drawn Tubes*](#)
- [*DIN2391 Seamless Precision Steel tubes*](#)

Carbon steel

- [*ASTM A519 ASME SA519 SAE1010 Seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1020 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1026 seamless tubes and pipes*](#)



- [ASTM A519 ASME SA519 SAE1035 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE1045 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE4130 seamless tubes and pipes](#)
- [ASTM A179 / ASME SA179 Seamless tubes](#)
- [ASTM A192 / ASME SA192 Seamless boiler tubes](#)
- [ASTM A210 / ASME SA210 GRADE A1 Seamless tubes](#)
- [ASTM A210 / ASME SA210 GRADE C Seamless tubes](#)

Alloy steel

- [ASTM A213 T11 T12 T22 Seamless alloy tubes](#)
- [ASTM A 213/A 213M T2, T5, T5b, T9, T91 Seamless Alloy Steel tubes](#)
- [ASTM A335 P1, P2, P5, P9 Seamless alloy pipes](#)
- [ASTM A335 P11, P12, P22, P91 seamless alloy pipes](#)
- [ASTM A209 ASME SA209 T1 tubes](#)

Copper and Brass

- [ASTM B111 Copper and Brass Tubes](#)

Titanium Alloy Tubes

- [ASTM B338 GR.1 GR.2 GR.3 Titanium Alloy Tubes](#)



Read more information on CTS TUBES main products

- [Seamless carbon steel tubes](#)
- [Cold drawn precision steel tubes](#)
- [Seamless alloy steel tubes](#)
- [Copper alloy seamless tubes](#)
- [Titanium and titanium alloy tubes](#)
- [Stainless steel tubes](#)
- [U bent heat exchanger tubes](#)
- [Fin tubes](#)
- [Bearing steel tubes](#)



About CTS TUBES

CTS TUBES provide a wide range of steel products as Steel pipes, Seamless tube, seamless pipes, Alloy pipes, Pipe fittings, Stainless steel pipe, Copper tube and Titanium alloy tube used in the industry, construction, etc. We are looking forward to getting in contact by phone or email, and we hope you enjoy our website. More than ten years of profound knowledge turn CTS TUBES into your competent partner as a trading house for tubes, fittings, and stainless steel. CTS TUBES stands for certified quality; because of this, all products of our wide range consist of demanding norms and the highest standards. CTS TUBES also stands for know-how and effective service. Best solutions for your profit Our qualified team in our export department in China is always at your disposal and will help you. Profit by the knowledge of CTS TUBES, which disposes to an intern database. Get in Touch If you are interested in our products or cooperating

Keep in Touch



If you are interested in our products or cooperation with us, even having a comment or a suggestion, please contact us now for more detailed information.

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