

MILD STEEL DOM TUBE

DOM refers to steel round tube that is "drawn over mandrel" and is also commonly known as a seamless round tube. It may also be produced from a steel strip that is electric-resistance welded, then normalized and cold drawn to a smaller dimension with a thinner wall thickness.

DOM tubing may be machined, formed, welded, carburized etc. Machinability is good to excellent, and weldability is excellent.

DOM Chemical Analysis

C	Mn	P (max)	S (max)
.05/.23	.30/.60	.04	.05

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AED stocks several sizes of DOM steel tubing and it is produced in "random lengths" that can range between 17 to 24 feet long. The best pricing is always when you order full lengths, which can be cut for economical shipping methods. AED also offers "cut-to-size" pieces.

The grade is typically 1020, but may also be 520 or 1026. The 1026 grade is normally for OD's larger than 2" and wall thicknesses heavier than .156".

1020 and 1026 meet ASTM A513 Type 5. 1026 may also meet ASTM A519 and may also be referred to as Cold Drawn Seamless (CDS), DOM or Hot Finished Seamless (HFS).

Table 1: DOM Steel Round Tube Typical Mechanical Properties - Minimum:

OD	Tensile Strength (psi)	Yield Strength (psi)	Elongation (%)	Rockwell B Hardness
Up to 2-3/4" OD x .125" maximum wall thickness	80,000	70,000	15	80
Over 2-3/4" OD with a wall thickness heavier than .125"	70,000	60,000	20	80

Table 2: 1020 and 1026 Steel Round Tube Typical Mechanical Properties - Minimum:

	1020	1026 CDS	1026 DOM	1026 HFS
Tensile Strength (psi)	80,000	87,000	80,000	70,000
Yield Strength (psi)	70,000	72,000	70,000	47,000
Elongation (% in 2")	15	10	10	28
Rockwell B Hardness	80	89	85	78



PRODUCT DETAILS



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Note: "Typical Mechanical Properties" have been compiled from a variety of sources. Information is deemed reliable, but it is not guaranteed. This data is provided for information only, **NOT FOR DESIGN PURPOSES.**

