

300M STEEL ALLOY ROUND BAR (E4340 Modified)

300M is a chromium-nickel-molybdenum low alloy, vacuum melted steel, similar to 4340, but with the addition of vanadium and a higher silicon content. Also referred to as a "Modified 4340," 300M offers a combination of toughness and ductility at high-strength levels. 300M is a deep hardening steel with excellent torque properties, high fatigue and creep characteristics, and maintains its strength at moderately high temperatures.

300M Chemical Analysis

C	Mn	P (max)	S (max)	Si	Cr	Ni	Mo	V
.40/.46	.65/.90	.010	.010	1.45/1.80	.70/.95	1.65/2.00	.35/.45	.05/.10

300M BAR

Historically, AED has stocked several sizes of 300M round bar in the "Normalized & Tempered" condition, although interest has declined in recent years. Minimums may apply, but we are always happy to check price and availability if we do not have the requested size in stock.

300M round bars are produced in "random lengths" that can range between 11 to 13 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 when available.

300M bars meet MIL-S-8844, AMS-6417, AMS-6419, AMS-2300, and other specifications.

300M Bar Typical Mechanical Properties:

Applies to material that is normalized, hardened and double tempered

Tensile Strength (psi)	280,000	
Yield Strength (psi)	230,000	
Elongation (% in 2")	7	
Reduction of Area (%)	Average All Tests	Lowest Single Test
Up to 100 sq in	30 min.	25
Over 100 to 144 sq in	25 min.	20

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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.**



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