



MADE IN AMERICA

LUFKIN Rods is the only privately owned and operated Sucker Rod manufacturing plant in the USA. All our products are sourced and manufactured domestically, and our advanced manufacturing plant ensures the highest quality possible. Our automated system continually monitors the manufacturing process and ensures the quality is consistent from start to the finish. Throughout the entire manufacturing process our quality control is unmatched in the industry. We offer more experience than any other sucker rod provider and offer unparalleled solutions for your rod lift applications. LUFKIN Rods will help you meet or exceed your goals, and can offer expert help with predictive designs, product selection, failure analysis, training and more. Put our experienced team to work for you and reduce your failure rates and improve your bottom line.

SUCKER ROD – SPECIFICATIONS

GRADE	C	DA	ES	DS	DXS	HA	HS
UNS Series Steel	G15360M	G41400M	G47200M	G43250M	G43250M	G41380M	G43300M
End Cap Color	White	Yellow	Light Blue	Orange	Orange	Green	Purple
Chemical Composition							
Carbon, %	0.34 - 0.39	0.38 - 0.43	<i>Proprietary</i>	0.18-0.24	0.18-0.24	0.38–0.43	0.30 to 0.34
Manganese, %	1.15 - 1.35	0.75 -1.00		0.80–1.00	0.80–1.00	1.00 - 1.30	0.70 to 1.10
Phosphorus, %	0.040 max.	0.030 max.		0.025 max	0.025 max	0.030 max	0.030 max.
Sulfur, %	0.040 max.	0.035 max.		0.03 max	0.03 max	0.035 max	0.035 max.
Silicon, %	0.15 - 0.35	0.15–0.35		0.15–0.35	0.15–0.35	0.15–0.35	0.15 to 0.35
Nickel, %	0.25 max.	0.25 max.		1.15-1.35	1.15–1.35	0.30 max.	1.65 to 1.85
Chromium, %	0.20 max.	0.90 - 1.10		0.90–1.15	0.90–1.15	0.90–1.10	0.90 to 1.10
Molybdenum, %	0.06 max.	0.15 - 0.25		0.20–0.30	0.20–0.30	0.15–0.25	0.15 to 0.30
Vanadium, %	0.04 - 0.07	0.02–0.05		0.10 max	0.10 max	0.02–0.05	0.07 to 0.10
Copper, %	0.35 max.	0.35 max.		0.35 max	0.35 max	0.35 max	0.35 max
Mechanical Properties							
Yield Strength, 2-inch offset, kpsi	60 min.	95 min.	85 min.	95 min.	100 min.	115 min.	115 min.
Tensile Strength, kpsi	90 - 115	120 -140	115 - 140	120 - 140	125 - 135	140 - 150	140 - 150
Elongation, 8-inches, %	13 min.	10 min.	10 min.	10 min.	10 min.	10 min.	10 min.
Reduction of Area, %	45 min.	45 min.	45 min.	45 min.	40 min.	40 min.	40 min.

Document update: 09/5/2024. Specifications subject to change without notice.