



**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	K	DA	ES	DS	DXS	HA	HS
<b>UNS Series Steel</b>	G15360	G43200	G41400M	G47200M	G43250M	G43250M	G41400M	G43300
<b>End Cap Color</b>	White	Blue	Yellow	Light Blue	Orange	Silver	Green	Purple
<b>Chemical Composition</b>								
<b>Carbon, %</b>	0.34 to 0.39	0.18 to 0.24	0.38 to 0.43	Proprietary	0.22 to 0.28	0.22 to 0.28	0.38 to 0.43	0.30 to 0.34
<b>Manganese, %</b>	1.15 to 1.35	0.80 to 1.00	0.75 to 1.00		0.80 to 1.00	0.80 to 1.00	0.75 to 1.00	0.70 to 1.10
<b>Phosphorus, %</b>	0.040 max.	0.025 max.	0.030 max.		0.025 max.	0.025 max.	0.030 max.	0.030 max.
<b>Sulfur, %</b>	0.040 max.	0.030 max.	0.035 max.		0.035 max.	0.035 max.	0.035 max.	0.035 max.
<b>Silicon, %</b>	0.15 to 0.35	0.15 to 0.35	0.15 to 0.35		0.15 to 0.35	0.15 to 0.35	0.15 to 0.35	0.15 to 0.35
<b>Nickel, %</b>	0.25 max.	1.15 to 1.35	0.20 to 0.40		1.15 to 1.35	1.15 to 1.35	0.20 to 0.40	1.65 to 1.85
<b>Chromium, %</b>	0.20 max.	0.80 to 1.05	0.90 to 1.10		0.90 to 1.15	0.90 to 1.15	0.90 to 1.10	0.90 to 1.10
<b>Molybdenum, %</b>	0.06 max.	0.20 to 0.30	0.15 to 0.25		0.20 to 0.30	0.20 to 0.30	0.15 to 0.25	0.15 to 0.30
<b>Vanadium, %</b>	0.04 to 0.07	0.04 to 0.10	0.02 to 0.05		0.10 max.	0.10 max.	0.02 to 0.05	0.07 to 0.10
<b>Copper, %</b>	0.35 max.	0.35 max.	0.35 max.		0.35 max.	0.35 max.	0.35 max.	0.35 max.
<b>Mechanical Properties</b>								
<b>Yield Strength, 2-inch offset, psi</b>	60,000	60,000	95,000	85,000	95,000	100,000	115,000	115,000
<b>Tensile Strength, kpsi</b>	90 to 115	90 to 115	120 to 140	115 to 130	120 to 140	125 to 135	140 to 150	140 to 150
<b>Elongation, 8-inches, %</b>	13 min.	16 min.	10 min.	10 min.	10 min.	10 min.	10 min.	10 min.
<b>Reduction of Area, %</b>	45 min.	55 min.	45 min.	45 min.	45 min.	40 min.	40 min.	40 min.

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