



# SUCKER RODS

## Grade HS (High Strength Special)

### **SPECIFICALLY FORMULATED FOR DEEP WELLS AND/OR HEAVY ROD LOADS**

The grade HS sucker rod is manufactured from modified UNS G43300 nickel-chromium-molybdenum alloy steel. After normalizing and tempering with specially selected temperatures to maximize impact properties, all rods are shot peened per our own unique standards, developed to significantly improve corrosion and fatigue resistance. Recommended for reciprocating rod lift applications, the grade HS sucker rod is designed to maximize performance and improve runtime in fluids that are effectively inhibited to prevent corrosion. Grade HS sucker rods are ideally suited for use in Progressing Cavity Pumping (PCP) applications with slim hole, high strength couplings.

### **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 systems continually monitor the manufacturing process and ensures the quality is consistent from start to finish. Throughout the entire manufacturing process, our quality control is unmatched in the industry. We offer more experienced personnel than any other sucker rod provider and offer unparalleled solutions for all your rod lift applications. LUFKIN Rods will help you meet or exceed your production goals, and can offer expert help with predictive designs, product selection, failure analysis, training and much more. Put our experienced team to work for you and let us help you reduce your failure rates and improve your bottom line.



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[lufkin.com/rods](http://lufkin.com/rods)

# SUCKER RODS - GRADE HS - SPECIFICATIONS



## CHEMICAL

<b>Color Code</b>	<b>Purple</b>
<b>UNS Series Steel</b>	<b>G43300</b>
<b>Carbon, %</b>	<b>0.30 to 0.34</b>
<b>Manganese, %</b>	<b>0.70 to 1.10</b>
<b>Phosphorus, %</b>	<b>0.03 max.</b>
<b>Sulfur, %</b>	<b>0.035 max.</b>
<b>Silicon, %</b>	<b>0.15 to 0.35</b>
<b>Nickel, %</b>	<b>1.65 to 1.85</b>
<b>Chromium, %</b>	<b>0.90 to 1.10</b>
<b>Molybdenum, %</b>	<b>0.15 to 0.30</b>
<b>Vanadium, %</b>	<b>0.07 to 0.10</b>
<b>Copper, %</b>	<b>0.35 max.</b>

## MECHANICAL

<b>Yield Strength, 2-inch offset, psi</b>	<b>115,000 min.</b>
<b>Tensile Strength, psi</b>	<b>140,000 to 150,000</b>
<b>Elongation, 8-inches, %</b>	<b>10 min.</b>
<b>Reduction of Area, %</b>	<b>40 min.</b>



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**Manufacturing Plant**  
502 South Oakland Ave  
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Chemical and mechanical specifications are subject to change without notice.

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