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# SUCKER ROD PRODUCT DATASHEET

## API-D



V. 2015



## Exceed API-D Sucker Rod

### Product Overview

Material	AISI 4142 steel
Heat-treatment Method	Normalized and Tempered
Suitable Application and Environment	Medium to Medium-high Load, Limited Corrosive Wells

### Specifications

#### Mechanical Properties

Tensile Strength		Yield		Fatigue Strength		Elongation	Reduction	Hardness RC
Ksi	Mpa	Ksi	Mpa	$\sigma_{0.1}$ MPa	cycles	2", %	%	
115-140	793-965	≥100	≥689	≥100	≥1x10 <sup>6</sup>	≥10	≥45	22-31

#### Torque for PC Pump application

Rod Size	3/4"	7/8"	1"	1-1/8"
Torque (Nm)	650	1000	1500	2150

#### Chemical Composition

Al	C	Cr	Cu	Mn	Mo	Ni	Nb	P	Si	S	V
0.35 Max	0.40-0.45	0.80-1.10	0.25 Max	0.75-1.00	0.15-0.25	0.25 Max	-	0.025 Max	0.15-0.35	0.025 Max	0.02/0.07

#### Maximum Allowable Stress

$$S_a = SF \left( \frac{115,000}{4} + 0.5625 S_{min} \right)$$

### General Information

Exceed API-D grade sucker rods are manufactured with industry-leading automated process and are 100% inspected to meet API-11B specification. All products are covered by Exceed product warrantee. All products are coated with rust inhibitors, bundled with spacers and packaged in protective wooden crates for sea-worthy transportation.

Exceed API-D grade sucker rods are available in 5/8", 3/4", 7/8", and 1" diameters; 25 or 30ft in length.

