

# Sucker Rod Datasheet

## EHK



*Exceed Product Datasheet – EHK*

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## Product Overview

Material	AISI 3130 steel
Heat-treatment Method	Quenched and Tempered
Suitable Application and Environment	Heavy Loading, Deep and Inhibited Corrosive Wells

## General Information

EHK rods are an AISI 3130 alloy steel, manufactured using a quenched and tempered process to produce a high-strength and corrosion resistant rod. Quenched and tempered manufacturing produces a finer grain structure that is more fatigue resistant than normalized and tempered rods, and able to stand up to highly corrosive conditions.

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

## Specifications

### Mechanical Properties

Tensile Strength		Yield		Fatigue Strength		Elongation	Reduction	Hardness RC
Ksi	Mpa	Ksi	Mpa	$\sigma_{0.1}$ MPa	cycles	2", %	%	
140-155	965-1068	≥130	≥896	-	-	≥11	≥50	30-35

### Chemical Composition

C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	Al	Nb
0.22-0.29	0.15-0.35	0.71-1.00	≤0.025	≤0.035	0.41-0.65	0.70-1.00	≤0.35	≤0.05	-	-	-

### Maximum Allowable Stress

$$S_a = SF \left( \frac{140,000}{2.8} + 0.375 S_{min} \right)$$

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### Installation of EHK sucker rod

Exceed EHK sucker rods require API certified wrench squares for installation. Please see the chart below for the proper sizing. Best practices for installation of this rod include all API specifications.

Rod Size (Inch)	Rod Type	Wrench Square (Inch)
3/4	EH / Other API products	1
7/8	Other API Products	1
	EH	1 1/8
1	EH / Other API products	1 5/16

### Service Rig Crew – Equipment and Personnel

Your service rig crew should have the required equipment for the installation of these rods. Best practices for crews include all API recommendations, including but not limited to: no metal on metal contact, use of two people 5’ from each rod end in moving rods, 3-5 points of contact on all rods placed on risers, use of manufacture sanctioned torque cards, etc.

If your crew does not have prior training with API requirements please contact your local Exceed representative for further instruction and best practices.

