

Sucker Rod Datasheet

EH



Exceed Product Datasheet – EH

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www.eoe-inc.com



Product Overview

Material	Special Alloy Steel
Heat-treatment Method	Quenched and tempered + Case Hardened
Suitable Application and Environment	Extreme Heavy Load, less corrosive wells

General Information

EH rod is designed for heavy load and fatigue environment. During the manufacturing process, EH's post forge induction case-hardening process is fully automated and controlled with the highest precision, creating a uniform outer layer. This greatly reduces the risk of developing fatigue cracks on the rod body that are often originated at the surface, allowing the EH rod to outperform competing products in the toughest environments.

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", %	%	
144-180	993-1241			78.3	$\geq 1 \times 10^6$			

Chemical Composition

Al	C	Cr	Cu	Mn	Mo	Ni	Nb	P	Si	S	V
	0.25-0.28	0.80-1.10	≤ 0.2 0	0.40-0.70	0.15-0.25	≤ 0.3 0		≤ 0.0 25	0.17-0.37	≤ 0.0 25	

Maximum Allowable Stress

$$S_a = SF(55,000 + 0.2143 S_{min})$$

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Installation of EH sucker rod

API wrench square dimension for both 3/4" and 7/8" sucker rods are 1 inch. For 7/8" EH rod, the wrench square is slightly bigger, at 1-1/8 inch. This ensures EH's wrench square matches the strength of its case-hardened, enhanced body. Please make sure the work-over crew has 1-1/8 inch wrench tool ready before installing EH 7/8" sucker rod.

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

If your work-over crew does not have prior training with induction case-hardened rods, please contact your local Exceed representative for further instruction and best practices.

