



Apex

Mechanical Sucker Rods

HS High Strength

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Mechanical Sucker Rods HS High Resistance HS96



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Apex Steele Sucker Rods, Drive Rods and Pony Rods

Chemical Properties

AISI Series	A-4138-M	
API Series	-	
APEX Grade	HS 96	
	Min	Max
Carbon	0.38	0.42
Manganese	1.1	1.4
Phosphorus	---	0.035
Sulfur	---	0.035
Silicon	0.20	0.35
Copper	---	0.35
Nickel	---	0.30
Chromium	0.55	0.85
Molybdenum	0.25	0.35
Vanadium	0.07	0.09

Mechanical Properties

APEX Grade	HS 96	
	Min	Max
Tensile		
ksi	140	150
Mpa	965	1034
Yield, 0.2% Offset		---
ksi	115	---
Mpa	793	---
Elongation 8 th %	8	---
Reduction in area %	30	---
Hardness (HRC)	30	33

Note: Tensile strength and yield strength values are the only physical requirements for Sucker Rods and Pony Rods in API Specification 11B.

All other physical properties are expected values only and may deviate from the values listed above.

Available Sucker Rods & Pony Rods

	APEX Grade	HS 96
Colour Codes	Body Ø	Green
	5/8" (15.88mm)	●
	3/4" (19.10mm)	●
	7/8" (22.20mm)	●
	1" (25.40mm)	●
	1 1/8" (28.58mm)	●
	1 1/4" (31.75mm)	†

● Standard Availability

† Special Order

Note: Available Sucker Rods Lengths: 25' & 30'

Available Pony Rods disponibles en 2', 4', 6', 8', 10' & 12'.



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**Mechanical Sucker
Rods
HS High Resistance HX97**



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Apex Steele Sucker Rods, Drive Rods and Pony Rods

Chemical Properties

AISI Series	A-4330-M	
API Series	-	
APEX Grade	HX 97	
	Min	Max
Carbon	0.30	0.34
Manganese	0.80	1.00
Phosphorus	---	0.035
Sulfur	---	0.040
Silicon	0.15	0.35
Copper	---	0.35
Nickel	1.65	1.85
Chromium	0.80	1.00
Molybdenum	0.20	0.30
Vanadium	0.07	0.09

Mechanical Properties

APEX Grade	HX 97	
	Min	Max
Tensile		
ksi	140	150
Mpa	965	1034
Yield, 0.2% Offset		---
ksi	115	---
Mpa	793	---
Elongation 8 th %	10	---
Reduction in area %	40	---
Hardness (HRC)	30	33

Note: Tensile strength and yield strength values are the only physical requirements for Sucker Rods and Pony Rods in API Specification 11B.

All other physical properties are expected values only and may deviate from the values listed above.

Available Sucker Rods & Pony Rods Colour Code

	APEX Grade	HX 97	
Colour Codes	Body Ø	Purple	
	5/8" (15.88mm)	●	
	3/4" (19.10mm)	●	
	7/8" (22.20mm)	●	
	1" (25.40mm)	●	
	1 1/8" (28.58mm)	●	
	1 1/4" (31.75mm)	†	

● Standard Availability

† Special Order

Note: Available Sucker Rods Lengths: 25' & 30'
Available Pony Rods disponibles en 2', 4', 6', 8', 10' & 12'.

