

Custom 465® Stainless



Custom 465® stainless steel is a premium melted, martensitic, age-hardenable alloy being used in demanding oil and gas drilling applications where yield strengths exceeding 200 ksi are required.

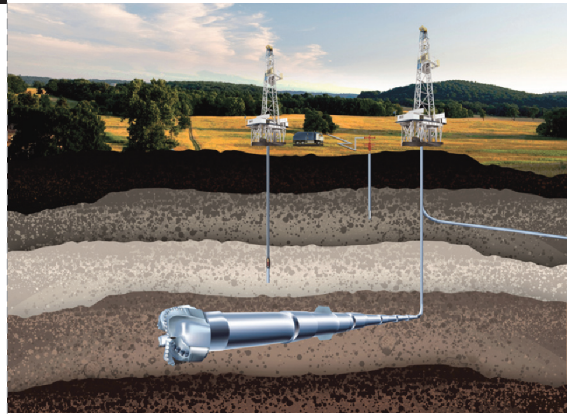
Unique combinations of high strength, toughness, fatigue and corrosion resistance can be obtained following a single-step heat treatment between 1,000 and 1,100°F (537 and 593°C).

Applications:

- Housings
- Mud motors
- Directional drilling tools

Product Forms:

- Bar
- Wire
- Strip
- Billet
- Hollow bar



Benefits:

- ▶ High strength and toughness
- ▶ Corrosion resistance

Contact:

For order quantities, pricing and delivery information:

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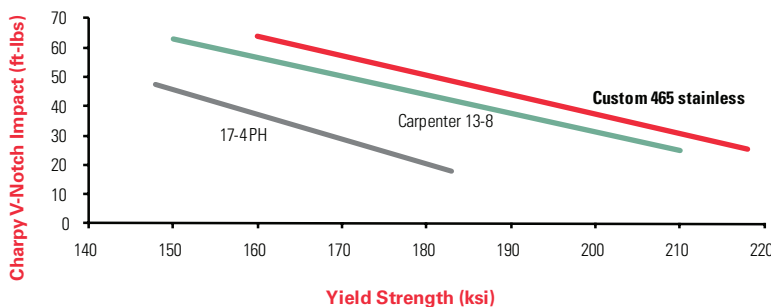
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Typical Room Temperature Mechanical Properties for 3" to 9" round bars								
Condition	Orientation	0.2% Yield Strength		Ultimate Tensile Strength		% Elongation in 4D	% Reduction of Area	Charpy V-Notch Impact
		ksi	MPa	ksi	MPa			
H1000	Long.	218	1501	231	1593	16	63	27
	Trans.	216	1487	229	1579	13	46	20
H1050	Long.	197	1360	217	1493	19	62	37
	Trans.	197	1357	215	1480	17	56	29
H1100	Long.	160	1103	196	1351	21	64	65
	Trans.	160	1103	193	1331	18	54	51

Comparison of Room Temperature Mechanical Properties



The information and data presented herein are typical or average values and are not a guarantee of maximum or minimum values. Applications specifically suggested for material described herein are made solely for the purpose of illustration to enable the reader to make his/her own evaluation and are not intended as warranties, either express or implied, of fitness for these or other purposes.

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