

# Technical Datasheet



## Custom 450® Stainless

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### Typical Cryogenic and Elevated Temperature Mechanical Properties 1" (25.4 mm) round bar

Condition	Test Temperature		0.2% Yield Strength		Ultimate Tensile Strength		Notch Tensile Strength K <sub>t</sub> = 10		% Elongation In 4D	% Reduction of Area	Charpy V-Notch Impact Strength	
	°F	°C	ksi	MPa	ksi	MPa	ksi	MPa			ft-lb	J
A	-320	-196	179	1234	207	1427	310	2137	17	47	30	41
H 900			249	1717	260	1793	85	586	5	8	1	1
H 1050			205	1413	223	1538	226	1558	22	58	5	7
H 1150			136	938	219	1510	249	1717	30	55	36	49
A	-100	-73	128	883	158	1089	251	1731	15	50	68	92
H 900			207	1427	216	1489	257	1772	16	56	4	5
H 1050			167	1151	180	1241	283	1951	21	65	41	56
H 1150			96	662	166	1145	240	1655	25	67	66	89
A	0	-18	120	827	148	1020	235	1620	15	53	90	122
H 900			194	1338	205	1413	306	2110	15	57	16	22
H 1050			160	1103	170	1172	267	1841	21	66	64	87
H 1150			93	641	154	1062	220	1517	24	69	85	115
H 900	600	316	138	951	160	1103	—	—	12	48	40	54
H 950			140	965	152	1048	—	—	12	49	50	68
H 1050			125	862	133	917	—	—	14	54	82	111
H 1150			97	669	112	772	—	—	17	62	103	140
H 900	800	427	131	903	150	1034	—	—	12	45	42	57
H 950			130	896	143	986	—	—	12	45	54	73
H 1050			115	793	121	834	—	—	13	49	82	111
H 1150			92	634	106	731	—	—	16	57	98	133
H 900	1050	566	76	524	84	579	—	—	24	75	66	89
H 950			78	538	85	586	—	—	27	74	67	91
H 1050			70	483	78	538	—	—	30	77	83	113
H 1150			67	462	81	559	—	—	26	68	97	132

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