

HASTELLOY[®] X alloy

Impact Strength

Average Impact Strength, Plate*

Condition	Test Temperature	Average Charpy V-Notch Impact Strength	
		ft. - lb.	J
Heat-treated at 2100°F (1149°C), Water Quenched	RT	103	140

*Average of 28 samples from multiple heats, 0.413" - 1.25" thick, tested during years 2007 - 2014.

Aged Plate*

Aging Temperature		Aging Time h	Average Charpy V-Notch Impact Strength	
°F	°C		ft.-lb.	J
SHT	SHT	-	95	129
1200	649	1000	24	33
		4000	12	16
		8000	15	20
1400	760	1000	10	14
		4000	10	14
		8000	8	11
1600	871	1000	15	20
		4000	12	16
		8000	15	20
		16000	12	16

SHT=Solution heat-treated (not aged) * Average of four tests on 1/2-in. (12.7mm) plate from a single heat.

[Print Page](#)

[Download Page](#)