

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.

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