

HASTELLOY<sup>®</sup> C-22HS<sup>®</sup> alloy

Impact Strength

**Room and Cryogenic Temperature Charpy (V-Notch) Impact Strength of 1 in Diameter Cold-worked (44%) Bar**

| Test Temperature | Impact Strength |     |
|------------------|-----------------|-----|
|                  | ft.lbf          | J   |
| RT               | 146             | 198 |
| -75°F (-59°C)    | 153             | 207 |
| -320°F (-196°C)  | 113             | 153 |

Values are averages from 2 tests; all samples were longitudinal

**Room and Cryogenic Temperature Charpy (V-Notch) Impact Strength of 2.375 in Diameter Cold-worked (54%) Bar as a Function of Orientation (Longitudinal and Transverse)**

| Test Temperature | Sample Orientation               | Impact Strength |     |
|------------------|----------------------------------|-----------------|-----|
|                  |                                  | ft.lbf          | J   |
| RT               | Longitudinal                     | 148             | 201 |
|                  | Transverse (Notch: Longitudinal) | 60              | 81  |
|                  | Transverse (Notch: Transverse)   | 54              | 73  |
| -75°F (-59°C)    | Longitudinal                     | 141             | 191 |
|                  | Transverse (Notch: Longitudinal) | 63              | 85  |
|                  | Transverse (Notch: Transverse)   | 52              | 71  |

Values are averages from 2 tests