

HAYNES[®] 25 alloy

High-temperature Hardness

The following are results from standard vacuum furnace hot hardness tests. Values are given in originally measured DPH (Vickers) units and conversions to Rockwell C/BW scale in parentheses.

| | Vickers Diamond Pyramid Hardness (Rockwell C/BW Hardness) | | | | | | | | | |
|------------------|--|--------|----------------------|---------|-----------------------|---------|-----------------------|---------|-----------------------|---------|
| | 70°F (20°C) | | 800°F (425°C) | | 1000°F (540°C) | | 1200°F (650°C) | | 1400°F (760°C) | |
| Solution Treated | 251 | 22 HRC | 171 | 87 HRBW | 160 | 83 HRBW | 150 | 80 HRBW | 134 | 74 HRBW |
| 15% Cold-Work | 348 | 35 HRC | 254 | 23 HRC | 234 | 97 HRBW | 218 | 95 HRBW | - | - |
| 20% Cold-Work | 401 | 41 HRC | 318 | 32 HRC | 284 | 27 HRC | 268 | 25 HRC | - | - |
| 25% Cold-Work | 482 | 48 HRC | 318 | 32 HRC | 200 | 30 HRC | 286 | 28 HRC | - | - |

HRC = Hardness Rockwell "C".

HRBW = Hardness Rockwell "B", Tungsten Indentor.