

HAYNES[®] HR-224[®] alloy

Tensile Properties

HAYNES[®] HR-224[®] Tensile Properties - Sheet

| Test Temperature | | Yield Strength 0.2% Offset | | Ultimate Tensile Strength | | Elongation |
|------------------|-----|-------------------------------|-----|------------------------------|-----|------------|
| °F | °C | ksi | MPa | ksi | MPa | % |
| RT | RT | 47.6 | 328 | 106.1 | 732 | 47 |
| 1000 | 538 | 42.7 | 295 | 95.3 | 657 | 57 |
| 1200 | 649 | 56.2 | 387 | 84.3 | 581 | 16 |
| 1400 | 760 | 57.9 | 399 | 68.5 | 472 | 14 |
| 1600 | 871 | 14.3 | 99 | 18.3 | 126 | 102 |
| 1800 | 982 | 6.9 | 48 | 9.2 | 64 | 105 |

HAYNES[®] HR-224[®] Tensile Properties - Plate

| Test Temperature | | Yield Strength 0.2% Offset | | Ultimate Tensile Strength | | Elongation |
|------------------|-----|-------------------------------|-----|------------------------------|-----|------------|
| °F | °C | ksi | MPa | ksi | MPa | % |
| RT | RT | 45.9 | 316 | 105.6 | 728 | 49 |
| 1000 | 538 | 42.2 | 291 | 93.6 | 645 | 57 |
| 1200 | 649 | 55.2 | 381 | 78.6 | 542 | 14 |
| 1400 | 760 | 59.5 | 410 | 69.6 | 480 | 9 |
| 1600 | 871 | 15.6 | 108 | 21.7 | 150 | 105 |
| 1800 | 982 | 5.8 | 40 | 9.5 | 66 | 125 |

HAYNES[®] HR-224[®] Tensile Properties - Bar

| Test Temperature | | Yield Strength 0.2% Offset | | Ultimate Tensile Strength | | Elongation | Reduction of Area |
|------------------|-----|-------------------------------|-----|------------------------------|-----|------------|-------------------|
| °F | °C | ksi | MPa | ksi | MPa | % | % |
| RT | RT | 45.8 | 316 | 106.5 | 734 | 48 | 72 |
| 1000 | 538 | 43.0 | 296 | 93.4 | 644 | 53 | 61 |
| 1200 | 649 | 54.8 | 378 | 74.5 | 514 | 13 | 22 |
| 1400 | 760 | 57.5 | 396 | 69.6 | 480 | 11 | 12 |
| 1600 | 871 | 12.9 | 89 | 19.5 | 135 | 106 | 93 |
| 1800 | 982 | 6.3 | 43 | 9.8 | 67 | 101 | 95 |