

HASTELLOY[®] C-22HS[®] alloy

Resistance to Hydrogen Embrittlement

Slow Strain Rate Tensile Test – Cold-worked Material

| Environment | Max. Load | | Normalized Factor | Time to Failure h |
|----------------------|-----------|------|-------------------|----------------------|
| | lb | kg | | |
| Air | 3997 | 1813 | - | 11.6 |
| Air | 4008 | 1818 | - | 14.1 |
| 3.5% NaCl | 4020 | 1823 | 1.00 | 12.9 |
| 3.5% NaCl | 3937 | 1786 | 0.98 | 11.1 |
| 3.5% NaCl @ -850 mV | 3925 | 1780 | 0.98 | 10.9 |
| 3.5% NaCl @ -850 mV | 4003 | 1816 | 1.00 | 13.6 |
| 3.5% NaCl @ -1000 mV | 3956 | 1794 | 0.99 | 13.8 |
| 3.5% NaCl @ -1000 mV | 3908 | 1773 | 0.98 | 10.9 |