



# HITEC PRODUCTS, INC.

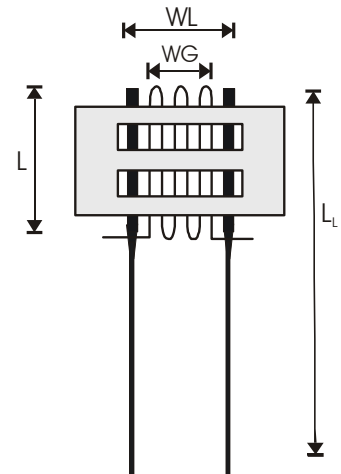
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## HFN SERIES

### Free Filament Strain Gages For Elevated Temperature Dynamic Measurements

- FEATURES:**
- Miniature Sizes 1/8", 1/16" grid lengths
  - Flame spray or ceramic cement application
  - Tight resistance tolerances
  - Unmatched grid alignment

HFN Series Free Filament Strain Gages are the result of 20 years of high temperature strain gage experience. The fixturing and unique capabilities that produce these gages are the result of engineering programs developed by the most experienced staff in the world.



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### SPECIFICATIONS

- Gage Grid:** ..... Nichrome V Alloy -.0007" Dia.  
**Gage Carrier:** ..... Fiberglass/Teflon with Silicone Adhesive  
**Leads:** ..... Chromel A-0.003" Dia.  
**Shelf Life:** ..... Carrier Adhesive 9 Months  
**Fatigue Life:** ..... Nominal  $2 \times 10^6$  cycles at  $\pm 750\mu\text{m/m}$  at 1000°F on Hastelloy X  
**Maximum Gage Current:** 30 Milliamp. at 500°C on Hastelloy X, 1mm thick.

Gage Factor	Grid Length	Grid Width	Nominal Resistance	Resistance Tolerance	Lead Length	Nominal Gage Factor
HFN-12-063-SCW	0.063 inch 1.600 mm	0.090 inch 2.286 mm	120 Ω	± 2 Ω	2 3/4" 70 mm	2.0
HFN-12-125-SCW	0.125 inch 3.175 mm	0.060 inch 1.524 mm	120 Ω	± 2 Ω	2 3/4" 70 mm	2.0
HFN-35-125-SCW	0.150 inch 3.8 mm	0.210 inch 5.3 mm	350 Ω	± 4 Ω	2 3/4" 70 mm	2.0

### SMALLER SIZES AVAILABLE

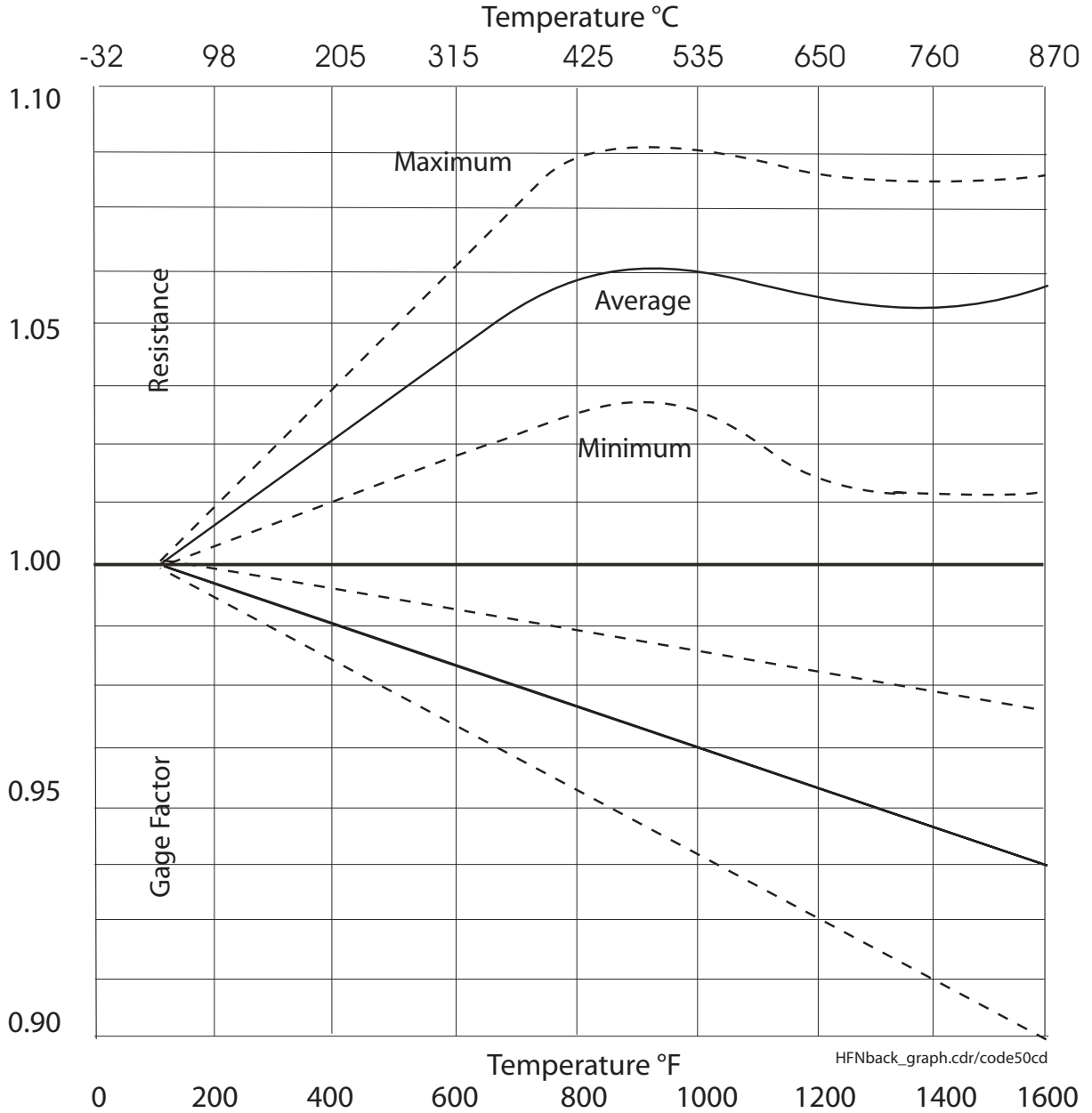
**APPLICATION** ..... All gage lengths can be applied with flame spray rod or powder, or with ceramic cement

**PACKAGING** ..... Gages are supplied on glass slides, 5 gages per package.

**CUSTOM CONFIGURATION** .... Tapeless free filament grids and high fatigue Z-type leads are available. Longer lead lengths available. Available with integral TC junctions. Available installed for weldable application.

**SPECIFICATIONS - PART II**

**Resistance & Gage Factor Change versus Temperature  
For HFN - Series Strain Gages**



Specifications subject to change without notice



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