



# HITEC PRODUCTS, INC.

P.O. Box 790 • Ayer, MA 01432 USA  
Tel: 978-772-6963 • Fax: 978-772-6966  
www.hitecprod.com

## HFM SERIES Free Filament Strain Gages

**Moleculoy® Alloy with superior oxidation resistance and excellent mechanical strength for high temperature vibratory testing**

- FEATURES:**
- Small size
  - No grid carrier
  - Available heat treated standard, and un-heat treated condition
  - Ceramic cement or flame spray application

HFM Series Moleculoy® Alloy wire strain gages provide a “no shelf life” alternative for elevated temperature dynamic strain gage requirements. Moleculoy is a non-magnetic 75/20-nickel chromium alloy modified with cobalt and aluminum. The flattened and heat-treated Moleculoy grid eliminates the need for a grid carrier during storage, virtually eliminating shelf life. The standard chromel leads are installed inboard. This feature combined with a narrow pitch reduces grid size to a minimum. Convoluted leads also available.

### SPECIFICATIONS

**Gage Grid:** ... Moleculoy® Alloy, Flattened  
**Leads:** ..... Chromel A-0.003” Dia.

**Carrier:** ..... None  
**Shelf Life:** ..... None

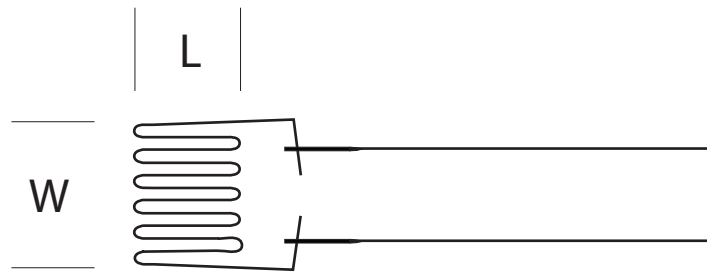
Gage Factor	Gage Length L	Gage Width W	Nominal Resistance	Resistance Tolerance	Lead Length	Nominal Gage Factor
HFM-20-125-SCW	0.125 inch 3.18 mm	0.180 inch 4.60 mm	200 ± 2.0 OHMS	± 20 OHMS	2 3/4” 70 mm	2.4
HFM-10-063-SCW	0.080 inch 2.00 mm	0.080 inch 2.00 mm	100 ± 2.0 OHMS	± 10 OHMS	2 3/4” 70 mm	2.4

### NOTES:

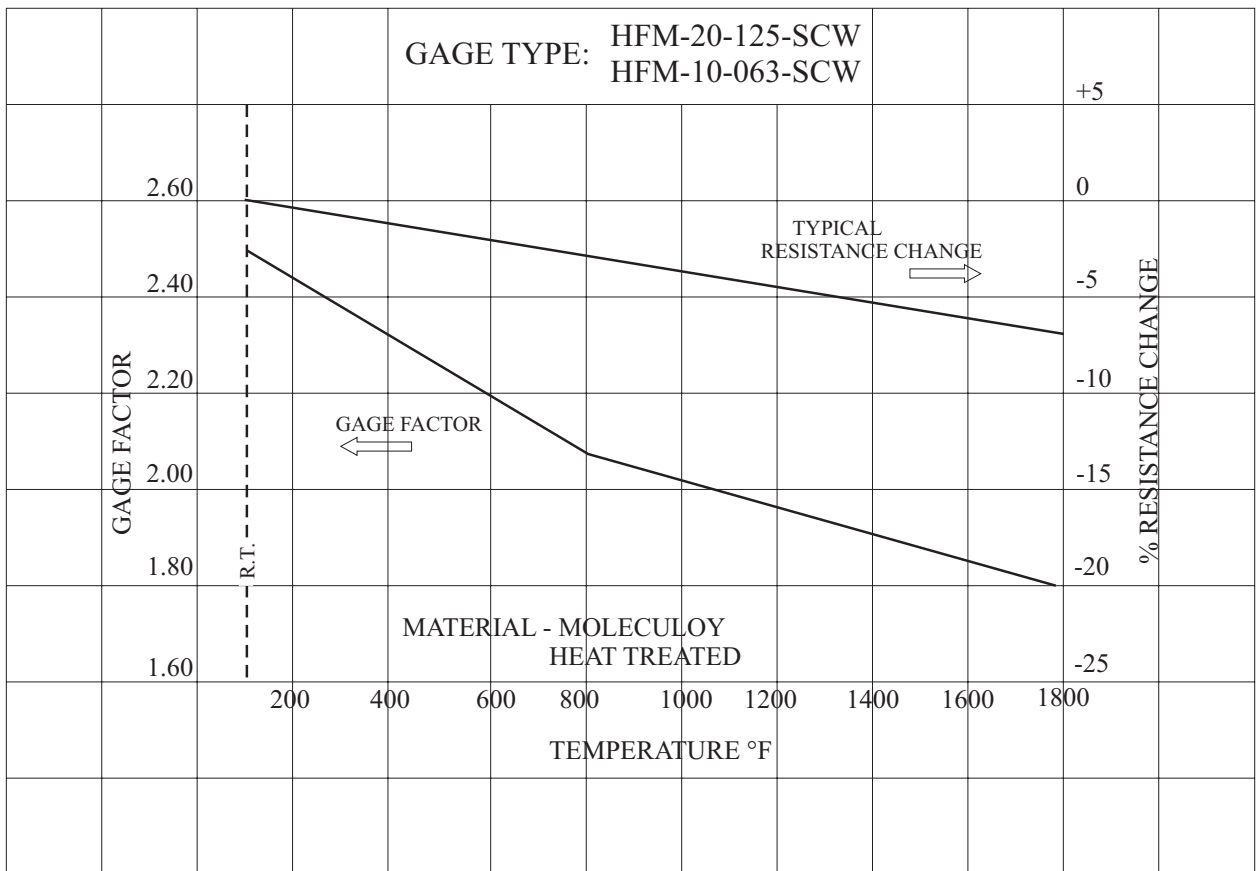
1. Gages are supplied on glass microscope slides, 1 gage per slide, and 5 slides per box.
2. All gages may be applied with flame spray, Rokide\*, or ceramic cement techniques.
3. For best results, install unheat treated gages. Heat treat after installation for 1 to 3 hours at 1050 to 1350°F. This heat treat reduces residual stresses from installation and improves durability.

**Contact Hitec Products for Cements, Adhesives, Flame Spray Equipment, and Accessories**

\*TM Norton Company  
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Moleculoy® is a non-magnetic 75/20 nickel chromium alloy modified with cobalt and aluminum. It possesses high resistivity, superior oxidation resistance, and excellent mechanical strength required for an elevated temperature strain gage alloy.



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