

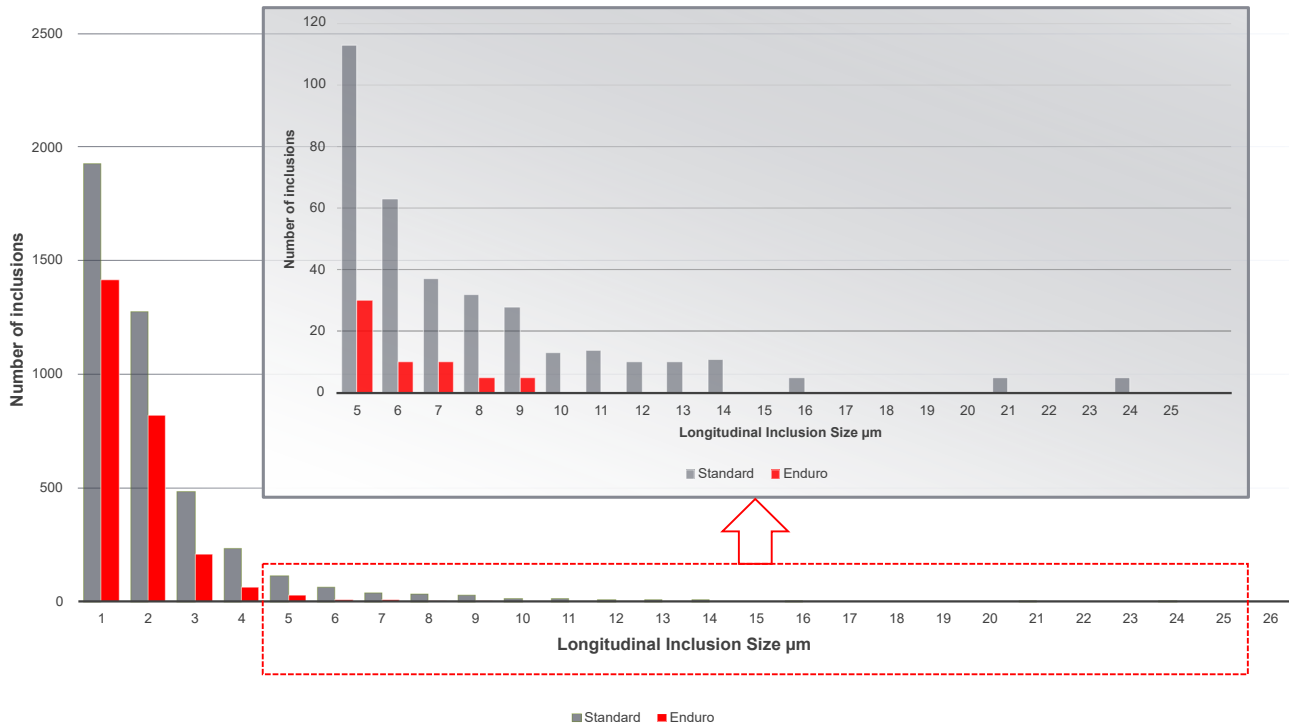
Enduro

A **new** nitinol material, engineered to go the distance in ultra-demanding applications.

- Significant reduction in inclusion size and area fraction, maximum 12.0 micron and 0.5% area fraction
- Drastic elimination of large carbides and oxides seen in commercial nitinol products
- Reduced inclusions throughout material cross section, not only the surface layer
- Enhanced fatigue life driven by material cleanliness and steep reduction of large inclusions
- ASTM F2063-18 compliant
- Available in commercial scale for components, tubes, wires, sheets and mill products
- Standard lead times

| | Max inclusion size (µm) | Max inclusion area |
|----------------------|-------------------------|--------------------|
| ASTM F2063-18 | 39.0 | 2.8% |
| Standard | 26.0 | 2.0% |
| Redox | 20.0 | 1.2% |
| Enduro | 12.0 | 0.5% |

Inclusion distribution comparison of typical VIM-VAR and Enduro heats shows a dramatic decrease in large inclusions, resulting in significantly improved fatigue life



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