

NITINOL HCF-SE PRODUCT OVERVIEW

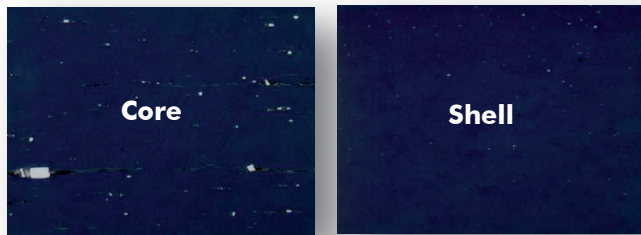
General technical information:

- HCF conforms to ASTM F2063
- Inclusion size in the range of max. 10 μ m / Area percentage max. 0,70%
- Inclusion size analysis conforms to ASTM definitions

HCF Tubes

EUROFLEX combines state-of-the-art tube manufacturing technologies in dimensional control and ID surfaces; with the advantages of HCF, a 3rd generation Nitinol material. HCF tubes offer new possibilities for device design and improved fatigue life for very complex and demanding devices, such as heart valve frames and neuro devices.

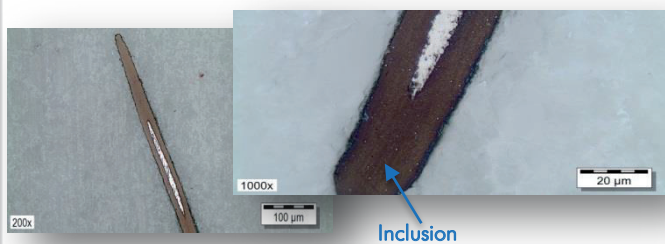
HCF Enhanced wire (HCF-E)



Cross-section: longitudinal

With its optimized shell (min. 10% of the wire dia.), HCF enhanced wire offers new possibilities for improved fatigue in braided products. Whereas the highest stress in braided structures occurs in the outer material fibers, the minimized inclusions in this zone are not a limiting factor for fatigue resistance anymore.

HCF Compounds



HCF shell with a PtW8 Core, Wire diameter 25 μ m

For applications requiring better material radiopacity and fatigue performance, HCF compounds offer an excellent solution. The content of the core material can be adjusted according to customer needs.

Core materials: Pt, PtW8, PtIr, Au, Ag, Ta

Advantages of HCF:

- Improved fatigue life compared to first and second generation nitinol materials
- New design opportunities for devices with narrow structures

