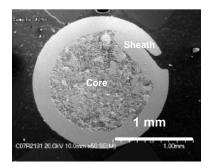
# Product Technical Information

# Nanostructured WC Cored Wire Feedstock

*NanoCore*<sup>™</sup> W7402-J Wire for Hardfacing Surfaces



SEM micrograph of cored wire cross-section

Photo of a typical cored wire bundle

Thermal Spray or Welding Grade Cored Wires

Cored Wire Size: 1.6 mm or 1/16 in diameter (or other sizes can be custom made).

### Cored Wire Composition

NanoCore <sup>TM</sup> W7402-J	Nominal Composition								
	Ni	Cr	Fe	Мо	Nb+Ta	С	W	Со	Ce
	Balance	13-14.95	3.25 max	5.2-6.5	2.05-2.70	1.88	28.92	4.2	0.814

### Features

The NanoCore™ W7402-J is a nanostructured cored wire that exhibit properties similar to W7402-J, but may provide a slightly better wear resistance due to fine dispersion strengthening effect added to the matrix composition. Materials features include:

- excellent coating bond strength to the coated component
- can withstand high temperatures
- good corrosion resistance
- excellent high temperature wear resistance

## **Suggested Applications**

*Nano* Core<sup>TM</sup> W7402-J is a special thermal spray or arc welding cored wire for high temperature hardfacing applications, providing wear-, erosion-, and corrosion-resistant surfaces. Typical example application of this cored wire is for the ore or raw material feeding for high temperature furnace in steel making operations or other high temperature applications where erosion and abrasive wear is important.

### Contact Information

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