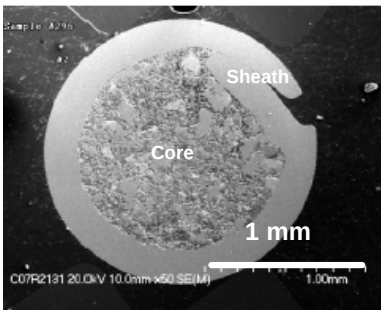
Product Technical Information

Nanostructured WC Cored Wire Feedstock

*Nano*Core™ W7401-J Wire for Hardfacing Surfaces

Photo of a typical cored wire bundle



SEM micrograph of cored wire cross-section

Thermal Spray or Welding Grade Cored Wires W7401-J

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

Cored Wire Composition

***Nano*Core™ W7401-J**		**Nominal Composition**						
	Ni	**Cr**	**Fe**	**Mo**	**Nb+Ta**	**C**	**W**	**Co**
	Balance	13-14.95	3.25 max	5.2-6.5	2.05-2.70	1.88	28.92	4.2

Features

The NanoCoreTM W7401-J is a nanostructured cored wire that exhibit properties 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™ W7401-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.

Contact Information

Inframat Corporation, 151 Progress Drive, Manchester, CT 06042
1-888-NANO-888, fax: 1-860-432-3722, web: www.inframat.com, email: info@inframat.com

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