CAL NANO

TOMORROW'S MATERIALS TODAY

ULTRA WEAR & ULTRA CORROSION WC-10CO-4CR COATINGS

CNO WC-10CO-4CR BASED POWDERS

THE NANO PERFORMANCE ADVANTAGE

CNO WC-10Co-4Cr powders feature nano enhanced WC grains. "As-sprayed," they provide higher hardness and produce smoother surfaces than conventional powders, reducing the amount of finish grinding required. The resulting coating is extremely tough, dense, has excellent resistance to wear, abrasion and erosion, and exhibits superior thermal shock capabilities. CNO-10Co-4Cr powders may be used in aqueous corrosion environments and have a service temperature exceeding 440°C (825°F).

MATERIAL PROPERTIES

COMPOSITION:	WC 10CO 4CR
PARTICLE SIZES:	-45 + 15 µm, -30 + 10 µm, -15 + 5 µm
WC GRAIN SIZE:	0.2 µm (NANO ENHANCED) IN MATRIX
CHARACTERISTICS:	SPHERICAL, AGGLOMERATED AND SINTERED

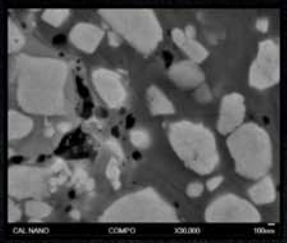
TYPICAL COATING PROPERTIES

MICROHARDNESS (HK0.5):	1230-1400 (TYPICALLY)
POROSITY:	<1%

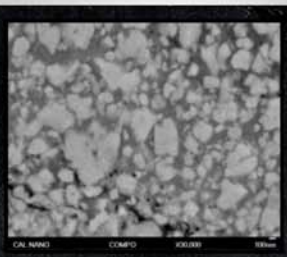
RECOMMENDED SPRAY PARAMETERS

SPRAY GUN:	JP-5000	DJ-HYBRID
SPRAY DISTANCE:	13 IN.	9 IN.
KEROSENE (GPH):	6.0	
OXYGEN (SCFH):	2000	520
HYDROGEN (SCFH):	1280	

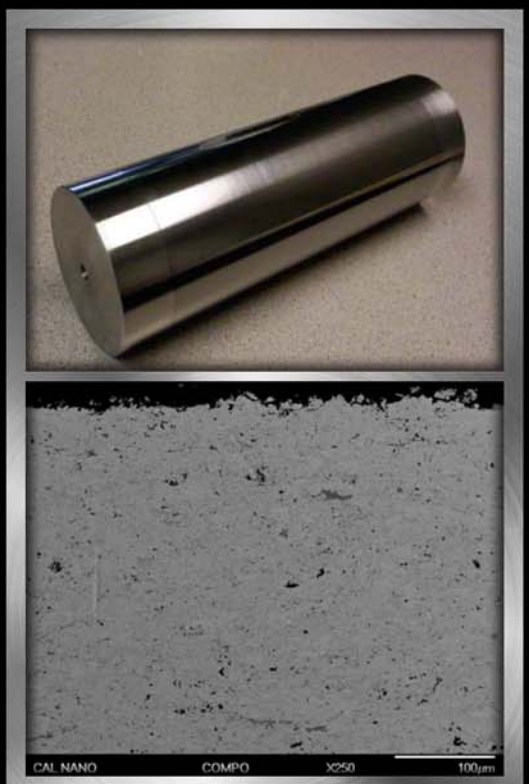
WC GRAIN SIZE COMPARISON

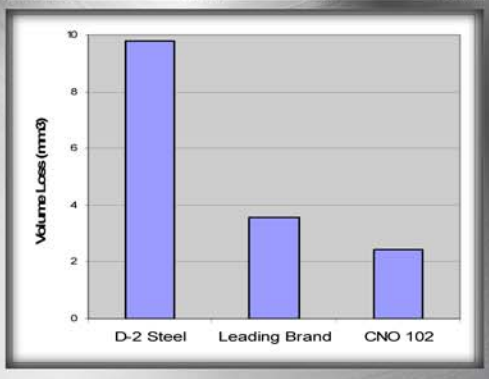


LEADING BRAND



CNO-WC-102





TEST METHOD: MODIFIED G105-02

WWW.CALNANOCORP.COM · PHONE: (562) 991-5211 · FAX: (562) 926-6913