CNPC POWDER[®]

CNPC-UFE

Iron Powder

CNPC-UFE is ultrafine iron powder main used in diamond tools, chemical industry, absorbing materials, lithium iron phosphate batteries, electric conductive slurry

FEATURES AND BENEFITS

High Consistency	A stable ore material and statistically controlled manufacturing process as- sure lot-to-lot consistency, homogene- ous and dense	* * *	Improves part consistency Increases productivity Reduces processing cost
High Purity	CNPC-UFE is produced by chemical method with high purity assures a con- sistently pure product	* * *	Assures consistency of premix chemistry. Improves compressibility Extends tool life
Temperature range	Sintering hardness of HRB85-100, Flexuralstrength>1000Mpa, Effec- tively promote the diamond protrusion	* *	Improves thin section morphology Facilitates green part handling
Salient features	With good mechanical properties, suit- able for rock cutting, grinding tools, cement saw blade and ceramic cutting	* *	Allows close-to-die design Reduces sintered dimensional variation Im- proves dimensional Control of infiltrated parts.

PHYSICAL AND CHEMICAL PROPERTIES

Fe(%) C(%) N(%) O(%)			99 0.03 0.01 0.3-1		
D50	2-4um	4-5um	5-7um	7-9um	172745774501
Apperent density	0.8-1.5g/cm3	1.2-1.8g/cm3	1.5-2.2g/cm3	2.0-2.5g/cm3	
Tap density	2.0-3.2g/cm3	2.4-3.5g/cm3	2.6-3.8g/cm3	3.2-4.2g/cm3	
Bending strength	1150-1250Mpa	1050-1150Mpa	1950-1050Mpa	880-980Mpa	
Hardness	91-95HRB	88-92HRB	75-85HRB	68-72HRB	