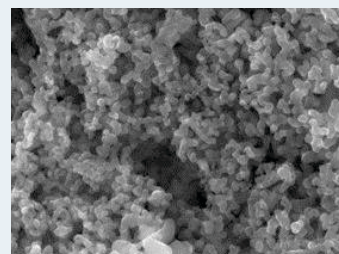


Chemical Analysis:

Elements	Unit	UF Grade	Testing Method
Co	%	99.80 Min (Excluding Oxygen)	AAS
O	%	0.60	AAS
C	%	0.03	Leco
Ni	ppm	50	AAS
Cu	ppm	50	AAS
Fe	ppm	80	AAS
Ca	ppm	80	AAS
Mg	ppm	80	AAS
Pb	ppm	80	AAS
Zn	ppm	50	AAS
Cd	ppm	50	AAS
Mn	ppm	50	AAS
Na	ppm	80	AAS
Al	ppm	50	Leco
Li	ppm	50	AAS
Cr	ppm	80	AAS
Si	ppm	80	AAS
S	ppm	80	Leco
Grain Size	μ	0.8 to 1.00	FSSS
D50	μ	8	Laser Particle Analyser
AD	g/cm ³	0.9 to 1.1	CARNEYS

Morphology:



Ultrafine Grade

Superfine Spheroidal and rod shape Cobalt powder with narrow particle distribution can be used for Hardmetal Industries & Diamond Tool applications.

Temperature Vs Hardness Table for Ultrafine Grade Cobalt Powder:

Temperature Centigrade	Hardness HRB
700	99.2
750	100
800	102
850	107
900	108 to 109
950	107
1000	106

Main Applications:

1. Cemented Carbide Cutting Tools
(Hard Metal Industries)
2. Diamond Tool Industries
3. Metal Injection Moulding
4. Powder Metallurgy
5. Electronic Industries

Characteristics:

- Consistent Quality
- Stable hardness in wide range of hot pressing Temperature
- No reactivity towards Diamond while sintering
- Availability in convenient vacuum packing

Hot Pressing Characteristics for Diamond Tool applications :

Pressure : 350 kg/Cm .sq.
Time : 5 Mins.
Atmosphere : Air

Packing:

25 to 50 kgs : Metal Drums with inner Silver foil Vacuum packed bags

1 kg to 5 kgs : Silver foil packing with inner LDPE bag vacuum packed.

MSDS:

Material Safety Data Sheet & COA will be provided with each supply.