



JAYANTH ENTERPRISES INDIA Pvt. Ltd

Hirehalli Industrial Estate, Shed No, B-6, Hirehalli,
Tumkur - 572168



QUALITY MANAGEMENT SYSTEM

Certificate of Registration



This is to Certify That The Quality Management System of

M/s. JAYANTH ENTERPRISES

NO: 24/2, MAHIMAPPA INDUSTRIAL ESTATE , 100ft. ROAD, JALAHALLI
CROSS, CHOKKASANDRA , OPPOSITE P.I.A BHAVAN, PEENYA ,
BENGALURU - 560 057, KARNATAKA, INDIA.

has been assessed and found to conform to the requirements of

ISO 9001:2015

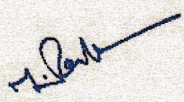
for the following scope :

MANUFACTURING AND TRADING OF TUNGSTEN METAL POWDER,
TUNGSTEN GRITS AND VARIOUS TYPES OF FERRO ALLOYS FOR INDUSTRIAL
APPLICATION.

Certificate No **24DQM29**
Initial Registration Date : 22/02/2024
Date of Expiry* : 21/02/2027
1st Surve. Due : 22/01/2025

Issuance Date : 22/02/2024

2nd Surve. Due : 22/01/2026


DIRECTOR

ROHS Certification Pvt. Ltd.



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مركز الاعتمادات العالمي للاعتماد
Emirates International Accreditation Centre
CB-QMS-035

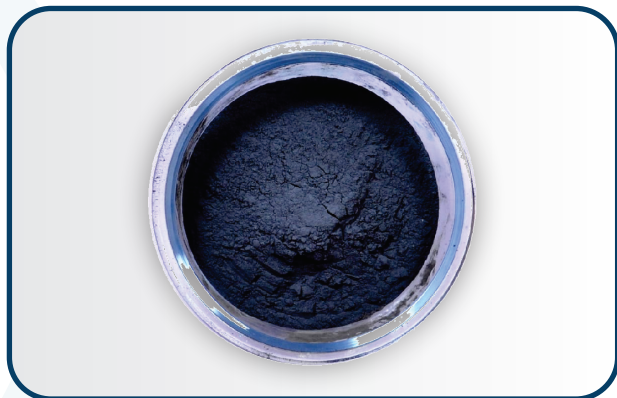


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METAL POWDERS

ISO 9001 : 2015



TUNGSTEN METAL POWDER (W)

Physical Properties

Avg. particle size	1.5-3	4-6	8-10	12-15
F.S.S.S. (μ)				
Apparent density	2.5	3.4	5.1	6.2
g/cc				

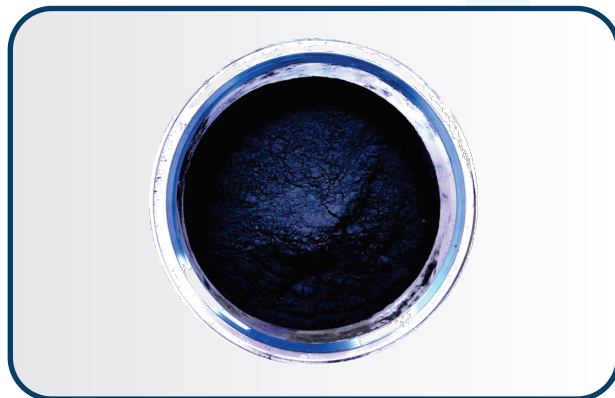
Chemical Composition

W, % Min.	99.85
O ₂ , % Max.	0.06
Fe, % Max.	0.006
Mo, % Max.	0.001
Cu, % Max.	0.001
Na, % Max.	0.002
Co, % Max.	0.002
Ca, % Max.	0.001
Mg, % Max.	0.001
Mn, % Max.	0.001
Zn, % Max.	0.001

Any other specification can be made as per order

Principal Applications

Tungsten Metal powder are mostly used in the manufacturing of diamond segments by hot pressing as additives in the metal matrix to improve the diamond retention and cutting ability. Also, these powders are used to manufacture electrical contacts, copper tungsten electrodes, weight fillers, induction accelerators, radiation shielding fillers and counter balance. Higher density Tungsten powder used for plastic densifier.



TUNGSTEN CARBIDE POWDER (Wc)

Physical Properties

Avg. particle size	2.5	5.0	10.0	15.0
F.S.S.S. (μ)				
Apparent density	2.4	3.2	4.8	6.0
g/cc				

Chemical Composition

C _{bonded} , % Min.	6.11
C _{FREE} , % Max.	0.03
Fe, % Max.	0.005
Mo, % Max.	0.001
Cu, % Max.	0.002
Na, % Max.	0.003
Co, % Max.	0.001
Ca, % Max.	0.001
Mg, % Max.	0.001
Mn, % Max.	0.001
Zn, % Max.	0.001

Any other specification can be made as per order

Principal Applications

Tungsten carbide powders are used to manufacture various graded powder for cemented tungsten carbide products and manufacturing of diamond segments to increase the hardness and abrasion resistance of the tools.

PACKING

All powder are available in various packing size of 1 Kg. & 5 Kg I cardboard box with inner LDPE bags sealed in vacuum. 25kg & 50kg with Silica Gel Packet
Packing in metal drum with inner LDPE bags sealed in inert atmosphere.
Third party test certificate can be provided on request



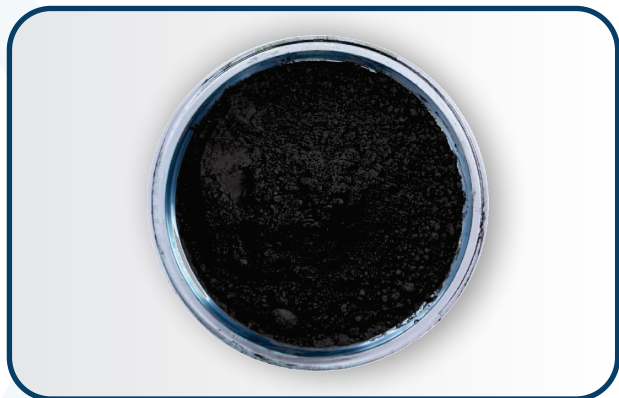
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METAL POWDERS

ISO 9001 : 2015



FUSED TUNGSTEN CARBIDE POWDER (W2C)

Physical Properties

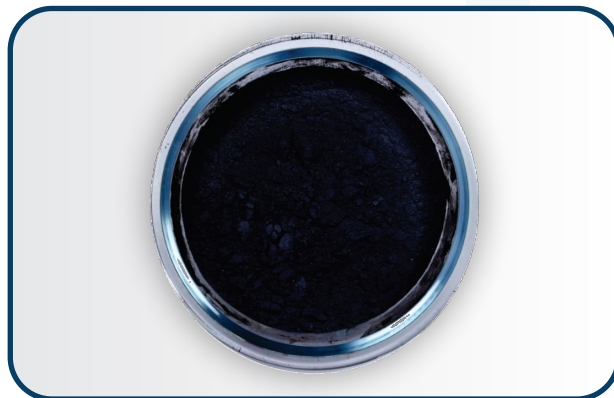
Mesh Size - ASTM/BSS standard, from -40 to +600 as per requirement of the customer.
Appearance - Blackish Grey Powder
Apparent density - 5.90 g/cc.
Melting Point - 3000 °C Approx

Chemical Composition :

C _{TOTL} %	3.5 - 4.1
C _{FREE} %	0.003 Max.
Fe, %	0.0 Max.
Cu, %	0.001 Max.
Co, %	0.002 Max.
Mg, %	0.001 Max.
Ni, %	0.001%
W, %	Balance

Principal Applications

Fused Tungsten Carbide powders have very high hardness and outstanding abrasion resistance. These are used to manufacture diamond core drill bits, electrodes for hard surfacing, diamond tools to cut very abrasive materials and wear resistance coating like hardox plates etc...



COBALT METAL POWDER (Co)

Physical Properties

1. Fisher grain size 1.1 to 1.5 micron (Extra fine)
 2. Fisher grain size 0.9 to 1.1 micron (Ultra fine)
- Apparent Density - 1.2 g/cc

Chemical Composition

Co	99.8 %	Min.
Fe	0.010 %	Max.
Mn	0.001 %	Max.
Zn	0.002 %	Max.
Na	0.002 %	Max.
Ni	0.006 %	Max.
Cu	0.001 %	Max.
Mg	0.001 %	Max.
O ₂	0.34 %	Max.

Principal Applications

Cobalt Metal powder is used for Diamond tools, cemented carbide tools, hard metals, diamonds polishing scaife etc...

PACKING

All powder are available in various packing size of 1 Kg. & 5 Kg I cardboard box with inner LDPE bags sealed in vacuum. 25kg & 50kg with Silica Gel Packet
Packing in metal drum with inner LDPE bags sealed in inert atmosphere.
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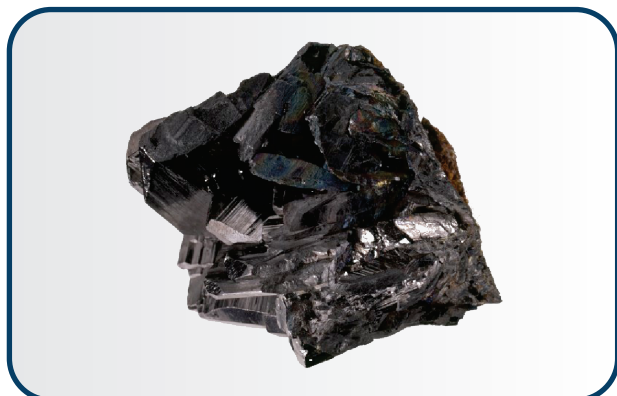
TUNGSTEN OXIDE

ISO 9001 : 2015



TUNGSTEN TRIOXIDE (WO₃)

Blue Tungsten Oxide (BTO) and Yellow Tungsten Oxide (YTO) are the most common forms of tungsten oxide used in the reduction of tungsten powders.



TUNGSTEN CONCENTRATES

Tungsten concentrate materials supplied to Jayanth Enterprises is high quality and homogenous. Any variation in concentrate material must be identified with a different lot or batch number.

All material must conform to the following specifications :

Property	Specification	Element	Maximum (WT%)
WO ₃	55% min	As	0.20
Size	< 2mm	Ca (wolframite only)	1.00
Moisture	4.0% max	Cd	0.01
		K	0.10
		Mo	0.50
		P	2.00
		Pb	1.00

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AMMONIUM PARATUNGSTATE (APT)

Ammonium Paratungstate $[(NH_4)_{10}(H_2W_{12}O_{42} \cdot 4H_2O)]$ is a material that is crystallized after the refining of tungsten raw materials such as tungsten concentrates or scrap. It can be further converted into a tungsten oxide for reduction into pure tungsten powder through a process of hydrogen reduction.

Physical Properties

Type	APT
Average Fisher Particle Size FSSS (μm)	30.0-70.0
Apparent Density (g/in ³)	30-55
Standard Screening (mesh size)	-100
Carbon (max)	≤0.0010
WO ₃ (min)	≤88.5



SODIUM TUNGSTATE (Na₂ WO₄)

White crystalline powder for production of pigments and catalysts,

Physical Characteristics

WO ₃ (as supplied)	Min. 65%
H ₂ O	Max. 10%
Na	Max. 22%
S	Max. 2%
F	Max. 2%
Fe	Max. 0.2%
Mo	Max. 0.4%