



TITANIUM SPONGE

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ABOUT US

FOUNDED WITH A VISION TO TRANSFORM THE MINING INDUSTRY, SRIVAY INDUSTRIES LIMITED HAS EVOLVED INTO A TRUSTED MULTINATIONAL LEADER IN MINING, MINERALS, AND INFRASTRUCTURE.

OUR JOURNEY BEGAN WITH IRON ORE EXTRACTION AND SWIFTLY ADVANCED TO GLOBAL OPERATIONS, INCLUDING GRANITE, COPPER, CHROMITE, AND ILMENITE MINING, ALONG WITH STATE-OF-THE-ART PROCESSING AND EXPORT FACILITIES.

SRIVAY IS COMMITTED TO PIONEERING SUSTAINABILITY AND TECHNOLOGICAL ADVANCEMENT IN TRADITIONALLY UNORGANIZED SECTORS. WE PRIDE OURSELVES ON BUILDING A SEAMLESS GLOBAL SUPPLY CHAIN, DELIVERING HIGH-QUALITY NATURAL RESOURCES, AND FORGING STRATEGIC JOINT VENTURES ACROSS INDIA AND INTERNATIONAL MARKETS.

DRIVEN BY INNOVATION, INTEGRITY, AND EXPERTISE, SRIVAY IS SHAPING THE FUTURE OF THE MINERALS AND MINING INDUSTRY—EMPOWERING GLOBAL PROGRESS WHILE PRESERVING OUR PLANET FOR GENERATIONS TO COME.

Srivay is the authorized distributor for KMML's Kemox RC 822+ titanium dioxide pigment, managing global exports on their behalf. KMML (Kerala Minerals and Metals Limited) is a leading Indian manufacturer specializing in high-quality titanium dioxide pigments used across paints, coatings, plastics, and other industrial applications. As a trusted multinational mining and minerals corporation with operations across Asia, Africa, North America, and the Middle East, Srivay leverages its extensive international network and expertise to ensure reliable supply of KMML's premium products to customers worldwide.

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TITANIUM SPONGE

KMML is the first and sole manufacturer of Titanium Sponge in India. It is produced through Kroll process in which Titanium tetrachloride is reduced with Magnesium metal. Titanium sponge is the intermediate product to the production of Ti-metal and is a vital raw material for a variety of industries requiring a blend of high strength to weight ratio, high corrosion resistance, etc.

General Description

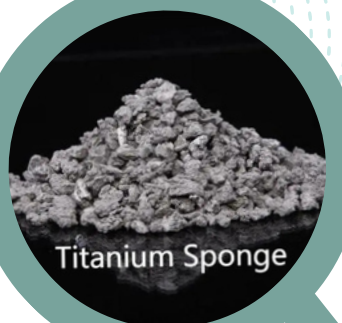
The virgin Titanium metal is commonly designated as Titanium Sponge is because of its porous and sponge-like texture. Made by 'Kroll Process". Titanium Sponge is the basic raw material for the manufacture of different grades of Titanium Metal and its beneficial alloys

Key Features

- ✓ High Strength to Weight Ratio
- ✓ Low Electrical and Thermal Conductivity
- ✓ High Corrosion Resistance
- ✓ Paramagnetic & Ductile

Applications

- ✓ Titanium Metal and Alloys
- ✓ Titanium Ingot (Aerospace Industry/Power & Chemical Industries/Seawater Desalination/Offshore Engineering/Construction/Automobile
- ✓ Components/Medical Care & Implants/Sports Goods)
- ✓ High Purity Titanium (Sputtering Targets for forming Semiconductor Films for DRAM)
- ✓ Titanium Powder (Powder Metallurgy/Intermetallic Compounds/Hydrogen Generation Agent/3D Printing)



TITANIUM SPONGE

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Physical Data

Color	: Silvery Metallic
Atomic Number	: 22
Atomic Weight	: 47.867
Melting Point	: 1668 °C
Density (room temp)	: 4.506 g/cc
Electric Resistivity	: 55 xx-cm
Thermal Conductivity	: 17 W/mK
Coefficient of Thermal Expansion	: 8.4 x 10/C



Typical Characteristics (in %)

Element	CP Grade 1 (Aerospace)	CP Grade 2	CP Grade3
Iron	< 0.050	< 0.100	<0.300
Carbon	< 0.015	< 0.015	< 0.050
Oxygen	< 0.015	< 0.080	< 0.300
Nitrogen	< 0.010	< 0.010	< 0.005
Hydrogen	< 0.010	< 0.015	< 0.100
Magnesium	< 0.040	< 0.050	< 0.200
Chloride	< 0.080	< 0.120	< 0.010
Nickel	< 0.010	< 0.010	< 0.020
Chromium	< 0.015	< 0.015	< 0.050
Other Elements	< 0.050	< 0.050	< 0.050
(Total) (Individual < 0.010%)			
Titanium	< 0.010	< 0.015	< 0.100
(Approx. by difference)			
Other Details			
Size, mm	2 - 25	2 - 25	2 - 25
Hardness (BHN)	< 110	110 - 150	> 150
Bulk Density, g/cc:	< 1.35	< 1.50	> 1.50

DATA SHEET

ITEM		MHT-95	MHT-100	MHT-110	MHT-125	MHT-140	MHT-160	MHT-200
		CLASS 0A	CLASS 0	CLASS 1	CLASS 2	CLASS 3	CLASS 4	CLASS 5
Ti content (% , min.)		99.8	99.7	99.6	99.4	99.3	99.1	98.5
Typical Chemical component (% , max.)	Fe	0.03	0.04	0.07	0.1	0.2	0.3	0.4
	Si	0.01	0.01	0.02	0.02	0.03	0.04	0.06
	Cl	0.06	0.06	0.08	0.1	0.15	0.15	0.3
	C	0.01	0.02	0.02	0.03	0.03	0.04	0.05
	N	0.01	0.01	0.02	0.03	0.04	0.05	0.1
	O	0.05	0.06	0.08	0.1	0.15	0.2	0.3
	Mn	0.01	0.01	0.01	0.02	0.02	0.03	0.08
	Mg	0.01	0.02	0.03	0.04	0.06	0.09	0.15
	H	0.003	0.003	0.005	0.005	0.01	0.012	0.03
	Ni	0.01	0.02	0.03	0.05	-	-	-
	CR	0.01	0.02	0.03	0.05	-	-	-
Hardness (HBW10/1500/30, max.)		95	100	110	125	140	160	200

STORAGE: This product should not be stored outdoors. Any direct contact with corrosive components such as moisture and acidity should be avoided.

*PACKING: 250 KG per iron drum
20MT with pallet per 20GP*

Contact us

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