

ChromCarb N6006

Metals And Welding Specialities Supplying to over 40+ countries including USA, Europe, Middle East, Asia.



Product Overview

Metals And Welding Specialities is a trusted supplier of **ChromCarb N6006 Coated Welding Electrodes**, offering high-quality hardfacing electrodes for industrial applications that require excellent abrasion resistance, hardness, and reliable weld performance. ChromCarb N6006 is a hardfacing electrode designed for components exposed to severe abrasion, moderate impact, and metal-to-metal wear. It produces a hard and durable weld deposit that helps restore worn surfaces, improve component life, and reduce equipment maintenance requirements.

The electrodes are suitable for repair, maintenance, rebuilding, and hardfacing applications across mining, cement, steel, heavy engineering, and other industries where wear-resistant welding solutions are required.

Domestic Market Demand

The demand for **ChromCarb N6006 Coated Welding Electrodes** is increasing across India as industries focus on reducing component wear, maintenance costs, and unplanned equipment downtime. Mining, cement manufacturing, steel production, and heavy engineering industries require reliable hardfacing electrodes for protecting critical components against abrasive wear and impact.

ChromCarb N6006 helps industries rebuild worn components and improve their service life, making it suitable for maintenance and hardfacing operations where durability and wear resistance are important.

High Demand Across India

ChromCarb N6006 Coated Welding Electrodes are supplied to industrial markets across **Maharashtra, Gujarat, Chhattisgarh, Odisha, Jharkhand, Karnataka, Tamil Nadu, Andhra Pradesh, Telangana, and Rajasthan.**

These states have significant mining, cement, steel, infrastructure, and heavy engineering activities where wear-resistant welding electrodes are used for repairing and hardfacing industrial equipment. The continued development of industrial and infrastructure projects is contributing to demand for high-performance hardfacing consumables.

Growing Industrial Applications

ChromCarb N6006 is used for hardfacing and rebuilding components that are exposed to abrasion, impact, and metal-to-metal wear. Typical applications include:

- Crusher hammers and crusher components
- Conveyor screws and wear surfaces
- Excavator buckets
- Rollers and grinding components
- Mixer blades
- Chutes
- Earthmoving equipment
- Mining machinery components
- Cement plant equipment
- Other industrial components exposed to severe wear

The hard weld deposit produced by ChromCarb N6006 helps protect component surfaces and can extend service intervals when used according to the appropriate welding procedure.

Industry Applications

Mining Industry

The mining industry is a major application area for **ChromCarb N6006 Coated Welding Electrodes** because mining equipment is exposed to abrasive minerals, rocks, and mechanical wear.

The electrodes can be used for hardfacing and rebuilding suitable mining components such as crusher parts, excavator buckets, dragline components, conveyor equipment, and other wear-prone surfaces. Hardfacing helps restore worn areas and protect components used in demanding mining environments.

Cement Industry

Cement manufacturing equipment is continuously exposed to abrasive materials and high levels of mechanical wear. **ChromCarb N6006 Coated Welding Electrodes** can be used for rebuilding and hardfacing suitable components in cement plants, including crusher components, roller mill parts, clinker handling equipment, fan blades, screw conveyors, and other wear-prone surfaces.

The wear-resistant weld deposit helps protect equipment surfaces and supports maintenance activities aimed at reducing component replacement frequency and equipment downtime.

Steel and Heavy Engineering Industry

Steel plants and heavy engineering facilities use hardfacing electrodes for rebuilding and protecting components subjected to abrasion, impact, and metal-to-metal wear.

ChromCarb N6006 can be used for suitable wear-resistant repair and hardfacing applications involving industrial machinery, material-handling equipment, rollers, crushers, and other components where a durable weld deposit is required.

Nationwide Distribution

Metals And Welding Specialities supplies **ChromCarb N6006 Coated Welding Electrodes** to customers across major industrial regions in India. Reliable availability, timely dispatch, and consistent product quality support manufacturers, maintenance contractors, fabrication companies, and industrial users involved in repair and hardfacing operations.

Supply Opportunities Across India

The continued growth of India's mining, cement, steel, infrastructure, and heavy engineering sectors is creating ongoing demand for reliable hardfacing welding consumables. **ChromCarb N6006 Coated Welding Electrodes** provide a practical solution for rebuilding and protecting suitable components exposed to abrasion, impact, and wear.

Metals And Welding Specialities supports industrial customers with ChromCarb N6006 electrodes for repair, maintenance, rebuilding, and hardfacing applications across India.

Specification ChromCarb N 6006 Welding Electrodes

Product	ChromCarb N 6006 Coated Electrode
Type	Chromium-carbide bearing hardfacing electrode
Primary Use	Overlay / protection of carbon, low-alloy and manganese steels against abrasion, erosion and moderate impact
Typical Applications	Muller tires, dredger parts, bucket arms, pug mill paddles, augers, screw conveyors, scrapers, impellers, wear pads
Carbide Hardness (typical)	~1200 VPN (Cr7C3)
Hardness (as-deposited)	57–60 HRC (single layer); multi-layer reports up to ~55–61 HRC
Current & Polarity	DCEP (+) or AC
Available Diameters	1/8" (3.2 mm), 5/32" (4.0 mm), 3/16" (4.8 mm) — (also common metric sizes 3.15, 4.00, 5.00 mm)
Recommended Amperage	1/8" (3.2 mm): 90–130 A 5/32" (4.0 mm): 120–160 A 3/16" (4.8 mm): 150–210 A (alternative ranges often listed for 3.15 / 4.00 / 5.00 mm: see manufacturer data)
Arc / Welding Characteristics	Medium arc; smooth, ripple-free deposits; good weldability — avoid excessive weaving ($\leq 2\times$ electrode diameter)
Technique / Preheat	Clean to bright metal. Nominal preheat $\sim 150^{\circ}\text{F}$ (65°C) for parts $<40^{\circ}\text{F}$ or $>1"$ thick; higher preheat for high-carbon steels. Use buffer layer on high-hardenability bases.
Packing / Typical Weight	Commonly supplied in 11 lb (≈ 5 kg) coils/boxes or similar packaged weights (varies by supplier)

ChromCarb N 6006 Welding Electrodes Parameters

Parameter	Specification
Product Name	ChromCarb N 6006 Welding Electrodes
Classification	High-chromium, carbon-bearing coated electrode
Coating Type	Rutile/Cellulosic blend (flux-coated)
Available Diameters	2.5 mm, 3.2 mm, 4.0 mm
Recommended Current Type	AC or DC+ (DC electrode positive)
Current Range (2.5 mm)	60–90 A
Current Range (3.2 mm)	90–140 A
Current Range (4.0 mm)	140–200 A
Welding Positions	Flat, horizontal, vertical-up, overhead
Typical Deposition Efficiency	~70–85%
As-Deposited Tensile Strength	~500–650 MPa
Hardness (as-welded)	~200–320 HV
Typical Applications	Wear-resistant overlays, repair of high-chrome components, hardfacing
Storage	Keep dry; store in a sealed container at 0–30°C
Packing	20 kg cartons (typical)

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