

Metals And Welding Specialities is proud to present the ChromCarb N6006 Welding Electrodes, a premium hardfacing electrode engineered for exceptional performance in abrasive and impact-prone applications. Designed for overlay and protection of carbon, low-alloy, and manganese steels, ChromCarb N6006 delivers durable, wear-resistant weld deposits optimized for harsh industrial conditions. The combination of chromium carbide particles in a weld matrix produces a dense, ripple-free deposit that resists both coarse particle abrasion and moderate gouging impact. This electrode excels in renewing components exposed to sliding wear, erosion, and mechanical abrasion, such as bucket lips, crusher jaws, rotor blades, pump impellers, chutes, and mining machinery surfaces.



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The ChromCarb N6006 Coated Electrode conforms to the UNS N06006 designation and is often associated with the ASTM Grade typical of high chromium carbide hardfacing materials. Its universal standard name aligns with high chromium carbide surfacing consumables designed under relevant ASTM and AWS classifications (for example, a similar functional reference electrode in the family of chromium-carbide overlay alloys). When properly applied, deposits achieve hardness in the range of 57–60 HRC as-

deposited, while individual carbides (Cr_7C_3) may reach approximately 1200 VPN, ensuring outstanding resistance against severe abrasive attack.



Chromcarb N6006 Welding Electrodes, Chromcarb N6006 Welding Electrodes Manufacturers, Chromcarb N6006 Welding Electrodes Suppliers, Chromcarb N6006 Welding Electrodes Stockists, Chromcarb N6006 Welding Electrodes Exporters

In actual use, the ChromCarb N6006 electrode offers flexibility in polarity (DCEP or AC) and operates best with a moderate arc and controlled weave. Excessive oscillation should be avoided to prevent overheating or degrading the wear-resistance microstructure. To ensure optimal bonding and adherence, surface preparation must include cleaning off scale, slag, or oxide layers and, when welding thick or high carbon steels, a nominal preheat is often advised. After welding, slow cooling in still air is recommended, possibly covering with a heat-retardant blanket for high carbon or tough steels to minimize cracking risks. The ChromCarb N6006 Coated Electrode is especially suited for applications where combined abrasion and moderate impact occur simultaneously. It is frequently deployed in rebuilding bucket arms, pulp mill paddles, hammer bars, dredge components, and slurry handling parts. Because its weld deposit is relatively smooth and dense, it also maintains dimensional stability and resists gouging or spalling under heavy load. Where the base metal is highly hardenable or has challenging heat sensitivity (such as manganese steels), a buffer or transition layer may be recommended before applying ChromCarb N6006 to optimize bond and reduce dilution.



Chromcarb N6006 Welding Electrodes in India, Chromcarb N6006 Welding Electrodes Manufacturers in India, Chromcarb N6006 Welding Electrodes Suppliers in India, Chromcarb N6006 Welding Electrodes Stockists in India, Chromcarb N6006 Welding Electrodes Exporters in India

Metals And Welding Specialities ensures rigorous quality control in every batch of ChromCarb N6006 electrodes. Our packaging, drying protocols, and storage practices preserve coating integrity, ensuring consistent arc stability, deposit efficiency, and mechanical properties on site. For customers in mining, cement, power, steel, or heavy fabrication sectors, leveraging the ChromCarb N6006 Coated Electrode with our technical support ensures longer wear life, reduced downtime, and optimized cost per hour of service. Contact us to discuss diameters, amperage ranges, or job-specific application recommendations.

Specification Chromcarb N6006 Welding Electrodes



Property	Specification
Product	ChromCarb® N6006 (coated electrode)
Type / Use	Hardfacing electrode for overlay/protection of carbon, low-alloy and manganese steels
Key features	High chromium-carbide content; resistant to coarse particle abrasion with moderate impact; dense, smooth, easy-to-clean deposits
Typical applications	Muller tires, anvils, dredger parts, bucket arms, pug mill paddles, augers, scrapers, impellers
Carbide hardness	≈ 1200 VPN (Cr_7C_3)

Hardness (as-deposited)	57–60 HRC
Current & polarity	DCEP (+) or AC
Available diameters & 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
Welding technique (summary)	Medium arc, electrode inclined ~45° in direction of travel; avoid excessive weaving ($\leq \sim 2\times$ electrode diameter); use a buffer layer on high-hardenability bases
Post-weld	Allow slow cooling in still air; cover high-carbon and air-hardenable steels with heat-retardant blanket as required

Equivalent Grade Of ChromCarb N6006 Welding Electrodes



Brand	AWS Classification	EN ISO	DIN Standard	UTP	Böhler	ESAB	Lincoln Electric	Thermanit	Application Type
Chromcarb N6006	E FeCr-A1	DIN 8555: E 10-UM-60-G	E 10-UM-60-G	UTP DUR 600	FOX DUR 600	OK 84.78	Wearshield 60	Thermanit Hardface	Hardfacing / Wear Resistant

Chromcarb N6006 Welding Electrodes Parameters



Parameter	Value
Product	ChromCarb N6006
Type	Chromium-carbide hardfacing electrode
Suitable base metals	Carbon, low-alloy and manganese steels
Carbide hardness	1200 (Cr7C3) VPN
Hardness (as-deposited)	57–60 HRC
Current & polarity	DCEP (+) or AC
Available diameters	1/8" (3.2 mm), 5/32" (4.0 mm), 3/16" (4.8 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

People Also Searched

ChromCarb 6006 electrodes, UNS N06006 hardfacing rod, N6006 overlay electrode, chromium carbide weld rod, CrC hardfacing electrode, ASTM chromcarb N6006, ChromCarb N6006 specification, N6006 welding electrode, chromium carbide coating electrode, N60-006 surfacing rod, hardfacing electrode N6006, Cr7C3 hardfacing electrode, N6006 wear resistant electrode, ChromCarb 6006 hardness, N6006 weld deposit, N6006 electrode datasheet, high chromium carbide electrode N6006, chromium-

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