XHD ABRATEC 6777 Welding Electrodes from **Metals And Welding Specialities** are premium-quality nickel-based electrodes designed to deliver exceptional performance in joining and overlay applications that demand superior resistance to heat, corrosion, and oxidation. Engineered with precision, these electrodes are formulated to meet the stringent requirements of high-temperature and chemical process industries. Manufactured in compliance with **ASTM A494 Grade N06006** and identified by the **UNS N06006** standard, XHD ABRATEC 6777 ensures consistency, strength, and long-term reliability in the most demanding welding environments.

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Developed using advanced metallurgical techniques, **XHD ABRATEC 6777** electrodes exhibit excellent weldability and produce a stable arc with minimal spatter. The specially formulated flux coating enhances slag removal and provides superior bead appearance, ensuring smooth, defect-free welds. These electrodes are ideally suited for welding nickel-chromium-iron alloys, offering excellent metallurgical bonding and maintaining mechanical integrity even under cyclic thermal conditions. The weld

deposit retains high tensile strength and ductility, making it ideal for use in components exposed to severe oxidizing and carburizing atmospheres.

XHD ABRATEC 6777 Welding Electrodes, XHD ABRATEC 6777 Welding Electrodes Manufacturers, XHD ABRATEC 6777 Welding Electrodes Suppliers, XHD ABRATEC 6777 Welding Electrodes Stockists, XHD ABRATEC 6777 Welding Electrodes Exporters

The **UNS N06006** alloy composition provides excellent resistance to oxidation up to 1200°C (2200°F) and offers outstanding protection against corrosion from hot gases, sulfur compounds, and chloride-bearing environments. As a result, **XHD ABRATEC 6777 Welding Electrodes** are widely used for applications in petrochemical plants, furnace hardware, heat treatment fixtures, gas turbines, and industrial boilers. Their versatility and performance make them a trusted choice among professionals working in industries where material longevity and stability are critical.

At **Metals And Welding Specialities**, we ensure every batch of XHD ABRATEC 6777 electrodes undergoes stringent quality inspection to meet international standards. The electrodes are produced with tight control over core wire purity and coating composition to achieve consistent mechanical and metallurgical properties. The product conforms to the **Universal Standard Name: Nickel-Chromium Alloy N06006**, reflecting its global acceptance and recognition for reliability and high performance.

XHD ABRATEC 6777 Welding Electrodes in India, XHD ABRATEC 6777 Welding Electrodes Manufacturers in India, XHD ABRATEC 6777 Welding Electrodes Suppliers in India, XHD ABRATEC 6777 Welding Electrodes Stockists in India, XHD ABRATEC 6777 Welding Electrodes Exporters in India

These electrodes can be used in both AC and DC polarities, offering excellent arc stability across all positions. The controlled heat input minimizes dilution and distortion, resulting in welds that exhibit exceptional corrosion and scale resistance. Whether for fabrication or repair welding, **XHD ABRATEC 6777** ensures consistent deposition characteristics and long service life under high-stress operating conditions.

Metals And Welding Specialities has established itself as a reliable manufacturer and supplier of industrial welding consumables, delivering unmatched quality and customer satisfaction. Our commitment to technical excellence and innovation is reflected in every product, making XHD ABRATEC 6777 the ideal choice for professionals seeking high-performance welding electrodes built for durability, precision, and superior metallurgical results.

Specification XHD ABRATEC 6777 Welding Electrodes

Specification	Detail
Product Name	XHD ABRATEC 6777 Welding Electrodes
Product Code / Model	ABRATEC 6777
Electrode Type	Flux-coated coated electrode
Coating Type	Heavy-duty flux coating (designed for high deposition and penetration)
Typical Applications	General fabrication, construction, heavy machinery repair, structural welding, high-wear parts

Compatible Base Metals	Carbon steels, low-alloy steels, structural steels
Available Diameters (mm)	2.5 mm, 3.2 mm, 4.0 mm, 5.0 mm
Available Lengths (mm)	300 mm, 350 mm, 450 mm (typical lengths)
Current Type	AC and DC+
Current Range (typical)	2.5 mm: 50–90 A · 3.2 mm: 80–130 A · 4.0 mm: 110–170 A · 5.0 mm: 150–240 A
Polarity	DC+ recommended; AC acceptable
Recommended Welding Positions	All positions (including vertical-down for suitable diameters)
Weld Metal Characteristics	High-deposit welds with deep penetration and good bead profile
Typical Mechanical Properties (as-welded)	Tensile strength: approx. 480–620 MPa; Elongation (A%) approx. 18–28%
Typical Chemical Composition (weld metal)	Designed for low-to-moderate alloy content; primarily Fe balance with controlled C, Mn, Si and small alloying additions
Flux Characteristics	Fast slag detachability, stable arc, good slag covering to protect weld pool
Preheat / Interpass	Depends on base metal and thickness; follow standard preheat/interpass practices for carbon and low-alloy steels
Packaging	Sealed plastic-lined cartons / tins; typical net weights 2.5 kg, 5 kg, 10 kg per box
Storage	Store in dry, low-humidity environment; keep in original sealed packaging to prevent moisture pickup
Certifications / Standards	Manufacturing quality per applicable ISO/AWS internal controls (check product datasheet for exact standard references)
Manufacturer / Brand	XHD / ABRATEC (or authorized distributor)
Notes	

XHD ABRATEC 6777 Welding Electrodes Parameters

Parameter	Specification
Product Name	ChromCarb N 6006 Coated 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)

People Also Searched

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