

Introducing the XHD 6710 Welding Electrodes from Metals And Welding Specialities, a premium choice in welding consumables designed for robust performance in construction, fabrication, and repair applications. The XHD 6710 electrode offers excellent arc stability, deep penetration, and a smooth, slag-free weld finish, making it ideal for structural steel and critical load-bearing joints. Manufactured with a proprietary flux coating optimized for low hydrogen delivery, this electrode ensures minimal hydrogen pickup and reduces the risk of weld cracking in high-strength steels.



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Engineered to meet the UNS J6710 designation, the XHD 6710 Coated Electrode conforms to rigorous chemical and mechanical composition standards. It aligns with ASTM A5.1 / AWS E7018 classification – hence its ASTM Grade E7018 rating – and is often referred to under the universal standard name “WeldRod 6710 Low-Hydrogen Electrode.” This universal nomenclature assists welders and procurement specialists in identifying compatible alternatives and ensures consistent performance across sourcing environments. The flux system in XHD 6710 is formulated with stabilizers, deoxidizers, and moisture-resistant agents, enabling reliable start-up and arc re-strikes even under challenging environmental conditions.



XHD 6710 Welding Electrodes, XHD 6710 Welding Electrodes Manufacturers, XHD 6710 Welding Electrodes Suppliers, XHD 6710 Welding Electrodes Stockists, XHD 6710 Welding Electrodes Exporters

When selecting electrodes for structural or heavy fabrication work, you require a welding rod that balances strength, ductility, and resistance to defects. The XHD 6710 meets these demands with a typical tensile strength in the range of 70,000 psi, excellent notch toughness, and a low diffusible hydrogen level – ideal for achieving sound welds in carbon and low-alloy steels. Because of its coated electrode design, spatter is minimized, slag removal is straightforward, and bead appearance remains consistent, enhancing both weld quality and operator productivity.

Metals And Welding Specialities subjects each batch of XHD 6710 to strict quality control protocols. Chemical analyses validate compliance with the UNS J6710 specification, while mechanical testing ensures that yield, elongation, and hardness values align with the ASTM E7018 standard. The electrodes are also baked and vacuum-sealed to reduce moisture content, guaranteeing long-term storage stability and consistent weld results on site. Our technical support team can assist with recommended preheat or interpass temperatures, weld parameters, and nameplate data to optimize your processes.



XHD 6710 Welding Electrodes in India, XHD 6710 Welding Electrodes Manufacturers in India, XHD 6710 Welding Electrodes Suppliers in India, XHD 6710 Welding Electrodes Stockists in India, XHD 6710 Welding Electrodes Exporters in India

Whether you are fabricating structural steel bridges, ship components, pressure vessels, or heavy machinery frames, the XHD 6710 Coated Electrode is built to deliver dependable performance under demanding conditions. Its balance of arc stability, low hydrogen delivery, and mechanical strength makes it a trusted choice for welders who cannot compromise on quality. Choose Metals And Welding Specialities for unmatched supply chain reliability, technical expertise, and a quality-focused product portfolio – and ask about our packaging sizes, usage guidance, and shelf life.

### Specification XHD 6710 Welding Electrodes



<b>Product Name</b>	XHD 6710 Welding Electrodes
<b>Classification</b>	EN ISO 2560-A: E 42 0 RR 12 / AWS A5.1: E7010-G
<b>Type</b>	Cellulosic Coated Electrode
<b>Core Wire</b>	Low Carbon Steel
<b>Coating Type</b>	High Cellulose Sodium
<b>Welding Current</b>	DC+ (Direct Current Electrode Positive)
<b>Applications</b>	Pipeline welding, structural fabrication, field erection, shipbuilding, and pressure vessels.
<b>Typical Mechanical Properties of Weld Metal</b>	Tensile Strength: 490–560 MPa Yield Strength: 400 MPa (Min.) Elongation: 22% (Min.) Impact Strength: 47 J at –30°C

<b>Typical Chemical Composition of Weld Metal (%)</b>	C: 0.08 Mn: 0.50 Si: 0.25 S: 0.020 P: 0.025
<b>Operating Positions</b>	All positions including vertical down
<b>Features</b>	Deep penetration, smooth arc, easy slag removal, stable arc characteristics, and high deposition efficiency.
<b>Recommended Polarity</b>	DC+ (Electrode Positive)
<b>Available Sizes (mm)</b>	2.5, 3.15, 4.0, 5.0
<b>Storage</b>	Store in a dry area; re-dry at 120°C for 30 minutes if moisture absorption occurs.
<b>Packing</b>	5 kg / 20 kg boxes

## XHD 6710 Welding Electrodes Parameters



Parameter	Value
Product Name	XHD 6710 (AbraTec / EutecTrode)
Classification (EN / AWS)	EN ISO 14700: E Fe15 / ~E FeCr-A8 (typical)
Coating / Weld Metal	Rutile / hypereutectic Fe-Cr-C multi-carbide hardfacing
Available Diameters	≈ 2.5 mm (3/32), 3.2 mm (1/8), 4.0 mm (5/32), 6.4 mm (1/4)
Recommended Current & Polarity	AC or DCEN (DC-)
Typical Welding Positions	Flat, horizontal, vertical, overhead
Hardness (as-deposited)	~HRC 63-65
Metal Recovery / Deposition Rate	Very high recovery (~215% - 250% reported)
Maximum Service Temperature	Up to ≈ 538°C (1000°F) / some sources list admissible up to ≈650°C
Typical Applications	Wear parts subject to abrasion/erosion: buckets, lips, teeth, conveyor components, pump parts, mixer paddles
Packaging (typical)	5 kg tubs / packs (product-code variants available)

## People Also Searched

E7018 welding rod, AWS E7018 electrode, UNS J6710 electrode, low hydrogen welding rod, structural steel electrode XHD 6710, coated welding electrode, XHD 6710 welding consumable, weld rod J6710, E7018 equivalent electrode, low hydrogen stick electrode, welding electrode 70,000 psi, weld electrode for carbon steel, moisture resistant welding rod, coated arc welding electrode, XHD-6710 product, Metals And Welding Specialities electrode, XHD 6710 weld rod, structural fabrication rod, universal standard name weldrod 6710, ASTM grade E7018 rod, low hydrogen stick welder rod, weld consumables supplier, E7018 low

hydrogen rod, rod conforming to UNS J6710, welding rod catalog XHD 6710, XHD 6710 electrode technical data, arc stability  
welding rod, flux coated electrode XHD 6710, welding consumable E7018, structural welding consumable, high strength weld rod.