

At Metals And Welding Specialities, we supply high-performance **EutecTrode 680 Welding Electrodes**, engineered for exceptional durability and strength in demanding industrial environments. These electrodes are designed to deliver reliable results in maintenance and fabrication applications where high wear resistance, tensile strength, and superior metallurgical integrity are essential.



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The **EutecTrode 680** electrode is a premium hardfacing alloy classified under UNS W73020 and conforms to ASTM A297 Grade HK standards. This universal standard ensures outstanding performance when exposed to elevated temperatures, thermal cycling, and corrosive atmospheres. The electrode's special coating formulation enhances arc stability, minimizes spatter, and ensures a smooth weld bead appearance even under challenging conditions.

EutecTrode 680 Welding Electrodes, EutecTrode 680 Welding Electrodes  
Manufacturers, EutecTrode 680 Welding Electrodes Suppliers, EutecTrode 680



One of the defining qualities of the **EutecTrode 680 Coated Electrode** is its remarkable resistance to abrasion, impact, and oxidation. It maintains its mechanical strength and hardness even after prolonged exposure to high heat, making it suitable for a wide range of applications in the cement, mining, steel, and petrochemical industries. Whether used for rebuilding worn parts, joining heat-resistant steels, or fabricating components exposed to severe service conditions, this electrode ensures consistent metallurgical performance and long-term reliability.

With its optimized alloy composition, **EutecTrode 680** delivers excellent bonding characteristics on both carbon and alloy steels. Its weld deposits exhibit superior crack resistance, allowing for stress-free performance under thermal fatigue and shock loads. This makes it a preferred choice for critical components such as kiln tires, crusher rolls, exhaust manifolds, furnace parts, and rotary kilns. Each electrode is precision-manufactured to meet stringent quality standards, guaranteeing uniform deposition and predictable results for professional welders.



EutecTrode 680 Welding Electrodes in India, EutecTrode 680 Welding Electrodes Manufacturers in India, EutecTrode 680 Welding Electrodes Suppliers in India, EutecTrode 680 Welding Electrodes Stockists in India, EutecTrode 680 Welding Electrodes Exporters in India

At Metals And Welding Specialities, we understand the importance of dependability in high-temperature welding operations. That's why we recommend **EutecTrode 680 Welding Electrodes** for applications that demand both strength and longevity. Its combination of heat resistance, metallurgical stability, and easy weldability makes it an indispensable solution for industrial maintenance teams and fabrication specialists alike.

When choosing welding consumables, selecting the right electrode can make all the difference in performance and cost efficiency. The EutecTrode 680 offers a proven balance of weld quality, deposition rate, and durability – ensuring every joint withstands the rigors of heavy-duty operation. Backed by our technical expertise and commitment to quality, Metals And Welding Specialities provides reliable products that keep your operations running at peak performance.

## Specification EutecTrode 680 Welding Electrodes



Specification	Details
Product Name	EutecTrode 680
Type	Coated Electrode
Classification	EN ISO 3581-A: E 18 8 Mn R 3 2
Diameter Range	2.5 mm, 3.2 mm, 4.0 mm, 5.0 mm
Length	300 mm – 450 mm
Current Type	AC / DC+
Welding Position	All positions (except vertical down)
Typical Chemical Composition (%)	C: 0.10, Si: 0.9, Mn: 6.0, Cr: 19.0, Ni: 9.0
Tensile Strength	Approx. 800 MPa

Yield Strength	Approx. 600 MPa
Elongation	Approx. 30%
Hardness	190–220 HB
Deposition Efficiency	Approx. 95%
Arc Characteristics	Stable arc with easy slag removal
Typical Applications	Dissimilar steels, buffer layers, stainless to mild steel, repair welding
Storage	Keep in dry condition; re-dry at 300°C for 1 hour if moisture absorbed

## EutecTrode 680 Welding Electrodes Parameters



Property	Value										
Tensile Strength	120,000 psi										
Yield Strength	79,000 psi										
Elongation (1 = 5d) min.	25 %										
Hardness (as-deposited)	90 HRB										
Maximum Service Temperature (steady state)	800 °F										
Electrode Current Polarity	DCEP (+) or AC (~)										
Diameter / Operating Current (amps)	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Amperage Range</th> </tr> </thead> <tbody> <tr> <td><sup>3</sup>/<sub>32</sub>" (2.4 mm)</td> <td>55 – 70 A</td> </tr> <tr> <td><sup>1</sup>/<sub>8</sub>" (3.2 mm)</td> <td>75 – 95 A</td> </tr> <tr> <td><sup>5</sup>/<sub>32</sub>" (4.0 mm)</td> <td>90 – 115 A</td> </tr> <tr> <td><sup>3</sup>/<sub>16</sub>" (4.8 mm)</td> <td>135 – 190 A</td> </tr> </tbody> </table>	Diameter	Amperage Range	<sup>3</sup> / <sub>32</sub> " (2.4 mm)	55 – 70 A	<sup>1</sup> / <sub>8</sub> " (3.2 mm)	75 – 95 A	<sup>5</sup> / <sub>32</sub> " (4.0 mm)	90 – 115 A	<sup>3</sup> / <sub>16</sub> " (4.8 mm)	135 – 190 A
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## People Also Searched

EutecTrode 680 electrode specification, UNS W73020 welding rod, ASTM A297 Grade HK electrodes, heat-resistant welding alloys, high-temperature hardfacing electrodes, nickel-chromium welding electrode, stainless steel coated electrode, Eutectic welding rods, high alloy steel welding electrode, EutecTrode hardfacing rod, repair welding electrode, HK grade electrode supplier, thermal fatigue resistant electrode, oxidation resistant electrode, welding consumables for petrochemical plants, furnace component repair rod, kiln tire welding rod, crusher roll rebuild electrode, wear-resistant electrodes, nickel-base electrode UNS W73020, high chromium alloy electrode, heat-resistant casting repair welding rod, Eutectrode electrode datasheet, alloy electrode for mining equipment, corrosion resistant electrode, high tensile strength electrode, HK alloy weld rod, EutecTrode 680 electrode uses, welding electrode for cement plant, nickel alloy electrode for exhaust manifold, welding consumable ASTM A297 HK, industrial repair welding alloy, heavy-duty electrode for high heat, hardfacing electrode for steel mill, high temperature welding rod supplier, UNS W73020 hardfacing electrode, Eutectic 680 equivalent, metallurgical electrode for hot section components.