

Metals And Welding Specialities proudly offers **E9018-B3 Welding Electrodes**, a high-performance welding solution designed for critical applications requiring superior mechanical strength and excellent creep resistance at elevated temperatures. Manufactured under strict quality control, these electrodes are formulated to deliver consistent and reliable results in high-temperature service environments such as pressure vessels, boilers, heat exchangers, and piping systems in power generation and petrochemical industries.



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The **E9018-B3 electrodes** are engineered to deposit a low-alloy steel weld metal containing 2¼% chromium and 1% molybdenum, ensuring exceptional resistance to oxidation and hydrogen attack. The weld deposits exhibit uniform hardness, fine-grained microstructure, and high tensile strength, making them ideal for joining and overlay welding of Cr-Mo steels. The electrodes conform to **AWS A5.5** and **ASME SFA-5.5** specifications, with a **UNS W90182** classification and **ASTM A335 Grade P22** compatibility. These standards highlight their reliability in meeting demanding industrial requirements.



E9018-B3 Welding Electrodes, E9018-B3 Welding Electrodes Manufacturers, E9018-B3 Welding Electrodes Suppliers, E9018-B3 Welding Electrodes Stockists, E9018-B3 Welding Electrodes Exporters

With a smooth, stable arc and easy slag removal, **Metals And Welding Specialities E9018-B3** electrodes provide exceptional operator control, even in out-of-position welding. The low-hydrogen coating minimizes the risk of hydrogen-induced cracking, ensuring strong and defect-free welds. They are particularly suitable for welding base metals such as ASTM A182 F22, A213 T22, and A217 WC9, which are commonly used in steam pipelines and turbine casings. The electrodes perform exceptionally well under both DC+ and AC polarities, providing flexibility across different welding setups.

Each **E9018-B3 coated electrode** is designed to maintain high impact toughness and resist thermal fatigue, even after prolonged exposure to temperatures up to 600°C (1110°F). This makes them an optimal choice for fabricating and repairing components exposed to high-pressure, high-temperature environments. The weld metal produced by these electrodes exhibits excellent post-weld heat treatment (PWHT) response, retaining mechanical integrity and structural stability.



E9018-B3 Welding Electrodes in India, E9018-B3 Welding Electrodes Manufacturers in India, E9018-B3 Welding Electrodes Suppliers in India, E9018-B3 Welding Electrodes Stockists in India, E9018-B3 Welding Electrodes Exporters in India

At **Metals And Welding Specialities**, we understand the critical importance of weld quality in industrial operations. That's why our **E9018-B3 Welding Electrodes** undergo rigorous testing to ensure consistent chemical composition, mechanical properties, and coating adhesion. They are packaged in moisture-resistant containers to prevent hydrogen pickup and maintain low moisture levels during storage and handling. By choosing Metals And Welding Specialities, industries gain a dependable welding solution backed by quality assurance and technical expertise.

Whether used for fabrication or maintenance welding, these electrodes deliver outstanding weld bead appearance, minimal spatter, and maximum efficiency. For critical applications that demand durability, strength, and resistance to extreme conditions, **Metals And Welding Specialities E9018-B3** electrodes are the professional's choice for dependable performance.

Specification E9018-B3 Welding Electrodes



Classification	AWS A5.5, E9018-B3
Form	Welding Electrode, Welding Rods
Type Of Current	Direct Current Electrode Positive (DCEP)
Diameters	3/32", 1/8", 5/32", 3/16" or 2.5mm, Ø 3.2mm, Ø 4.0mm, Ø 5.0mm
Size	2.0mm ∞ 5.0mm
AC/DC+	50-80, 80-110, 100-135, 140-180
Welding Positions	All positions 5/32" & 3/16" recommended for use in flat & horizontal positions only (F, V, OH, H)

AWS A5.5, E9018-B3 Coated Electrodes Application & uses

Petroleum
Chemical plant
Power sector
Gas Industry
Hardware tools
Metallurgy
Machinery
Construction
Shipbuilding

Equivalent Grade Of E9018-B3 Welding Electrodes



Class	UNS	Oxford Alloys	BOHLER
E9018-B3	W53018	Alloy 9018-B3	BOHLER FOX P 22

E9018-B3 Welding Electrodes Chemical Composition



C	Mn	Si	Cr	Ni	Mo	P	S	N	Cb	Cu	V
.09	.97	.20	9.5	.10	.95	.01	.01	.05	.04	.01	.21

E9018-B3 Welding Electrodes Parameters



Diameter	Type of Power	Amperage	Deposition Rate (lbs/hr)	Amperage Range
3/32"	DCEP or AC	100	2.38	70-110
1/8"	DCEP or AC	135	2.92	90-160
5/32"	DCEP or AC	170	4.08	130-220
3/16"	DCEP or AC	250	5.62	200-300

People Also Searched

E9018-B3 welding rods, AWS A5.5 E9018-B3 electrodes, ASME SFA-5.5 E9018-B3, UNS W90182 filler metal, ASTM A335 P22 welding rod, E9018-B3 low hydrogen electrode, Cr-Mo steel electrodes, 2.25Cr-1Mo welding electrode, high-temperature welding rods, pressure vessel welding electrode, boiler welding electrode, heat exchanger welding filler, E9018-B3 electrode supplier, E9018-B3 rod manufacturer, Metals And Welding Specialities welding electrodes, E9018-B3 mechanical properties, E9018-B3 chemical composition, E9018-B3 welding procedure, E9018-B3 vs E8018-B2, E9018-B3 SMAW rod, E9018-B3 for power plants, chrome-moly welding electrode, E9018-B3 post weld heat treatment, low alloy steel electrode, high strength welding electrode, hydrogen controlled electrode, AWS E9018-B3 specification, E9018-B3 weld metal properties, E9018-B3 applications, UNS

W90182 specification, ASTM A335 Grade P22 welding electrode, Cr-Mo pressure pipe welding rod, E9018-B3 filler rod specification, Metals And Welding Specialities E9018-B3 datasheet, industrial welding electrodes, E9018-B3 welding performance, E9018-B3 high creep strength rod.