

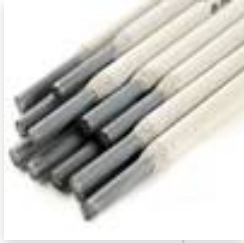
Metals And Welding Specialities presents the **E8018-B8 Welding Electrodes**, engineered for high performance in demanding environments. This electrode corresponds to UNS S50500 and is commonly used with ASTM Grade 9 (ASTM A387, A335, A213 T9, P9, etc.) and universal standard AWS A5.5 / ASME SFA 5.5. The E8018-B8 alloy is also known in industry as “9Cr-1Mo low hydrogen electrode,” and sometimes marketed under trade names such as BOHLER FOX CM 9 KB or Oxford Alloy 8018-B8.



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Metals And Welding Specialities' **E8018-B8 coated electrodes** use a low-hydrogen, iron-powder coating formulation that minimizes moisture absorption and hydrogen embrittlement. The weld metal typically achieves ~8.6 % chromium and ~1.0 % molybdenum, with carbon held near 0.07 %. The weld deposit exhibits excellent tensile strength, good ductility (elongation ~22 %), and acceptable impact toughness after proper heat treatment.



E8018-B8 Welding Electrodes, E8018-B8 Welding Electrodes Manufacturers, E8018-B8 Welding Electrodes Suppliers, E8018-B8 Welding Electrodes Stockists, E8018-B8 Welding Electrodes Exporters

In application, Metals And Welding Specialities' electrodes are ideal for welding 9Cr-1Mo creep resisting steels used in boilers, superheater tubing, pressure vessels, petrochemical piping, and power plant components. Many base metals joined by E8018-B8 include ASTM A213 T9, ASTM A335 P9, ASTM A387 Grade 9, ASTM A217 C12, A336 F9, and A426 CP9. Because of its low hydrogen content (less than 4 ml/100 g weld metal), this electrode helps guard against hydrogen cracking and reduces porosity in critical welds.

During welding, users should maintain a short arc length, preheat the base metal when necessary (especially in thick or hardenable sections), and optionally perform post-weld heat treatment to relieve residual stresses and optimize creep resistance. The recommended current types are DCEP (DC electrode positive) or AC, depending on electrode coating and polarity design.



E8018-B8 Welding Electrodes in India, E8018-B8 Welding Electrodes Manufacturers in India, E8018-B8 Welding Electrodes Suppliers in India, E8018-B8 Welding Electrodes Stockists in India, E8018-B8 Welding Electrodes Exporters in India

Typical diameters offered by Metals And Welding Specialities include $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ ", and $\frac{3}{16}$ " in sealed packaging to preserve electrode integrity. These electrodes are stored in moisture-controlled ovens and, if exposed, may be reconditioned by baking at recommended temperatures to restore low hydrogen levels.

In comparative terms, E8018-B8 offers improved arc striking, better deposition rates, and superior creep performance compared to lower chromium electrodes like E8018-B2 or E8018-G. For example, E8018-B2 (for ~1.25 % Cr, 0.5 % Mo steels) cannot sustain the higher service temperature and stress environments where 9Cr-1Mo steels are needed. When customers

search for similar welding electrodes, common keyphrases often include “E8018 B8 welding rod,” “9Cr-1Mo electrode,” “E 8018-B8 low hydrogen,” “ASTM A387 Grade 9 welding electrode,” “UNS S50500 welding rod,” “high chromium molybdenum electrode,” “creep resistant alloy electrode,” “boiler tube welding electrode,” “E8018-B8 vs E8018-B6,” “E9018-B3 high temperature electrode,” and “CrMo welding electrode for power plants.”

At Metals And Welding Specialities, we ensure every batch of **E8018-B8 coated electrodes** undergoes rigorous quality control, fabrication traceability, and conformance to AWS A5.5 / ASME SFA 5.5. Our expertise in supplying these electrodes positions us as a preferred stockist and exporter in the oil, gas, power, and refinery sectors across India and beyond. Choose Metals And Welding Specialities for reliable weld performance in extreme service conditions.

Specification E8018-B8 Welding Electrodes



Classification	AWS A5.5, E8018-B8
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 E8018-B8 Coated Electrodes Application & uses	Petroleum Chemical plant Power sector Gas Industry Hardware tools Metallurgy Machinery Construction Shipbuilding

Equivalent Grade Of AWS ENiCrMo-4 Welding Electrodes



Class	UNS	Oxford Alloys	BOHLER
E8018-B8	W50418	Alloy 8018-B8	BOHLER FOX CM 9 KB

E8018-B8 Welding Electrodes Chemical Composition



	Carbon (C)	Chromium (Cr)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Phosphorus (P)	Silicon (Si)	Sulfur (S)
AWS Spec	0.05-0.10	8.00-10.50	1.00	0.85-1.20	0.40	0.03	0.90	0.03
Weld Metal Analysis (%)	0.07	9.07	0.75	0.88	0.08	0.013	0.54	0.007

E8018-B8 Welding Electrodes Parameters



	AWS Spec (min)	SR 1 HR. @ 1375°F
Ultimate Tensile Strength	80,000 psi (550 MPa)	96,000 psi (663 MPa)
Yield Strength	67,000 psi (460 MPa)	76,000 psi (525 MPa)
Percent Elongation in 2"	19%	25%

People Also Searched

AWS E8018-B8, E8018-B8 welding electrode, UNS K90941, ASTM A335 Grade P91, ASTM A335 P91 electrode, E8018-B8 electrode supplier, low hydrogen electrode E8018-B8, alloy steel welding electrodes, E8018-B8 electrode chemical composition, creep resistant welding electrode, high temperature welding electrode, E8018-B8 welding rod, P91 welding electrode, UNS K90941 welding rod, boiler welding electrode, E8018-B8 electrode mechanical properties, AWS A5.5 E8018-B8, Cr-Mo welding electrode, E8018-B8 electrode hardness, pressure vessel welding electrode, heat exchanger electrode, superheater welding rod, E8018-B8 electrode tensile strength, petrochemical welding electrode, E8018-B8 hydrogen controlled electrode, 5Cr-0.5Mo welding rod, ASTM A213 T91 electrode, E8018-B8 electrode applications, UNS K90941 consumables, E8018-B8 electrode price, E8018-B8 electrode distributor, power plant electrode, refinery electrode, E8018-B8 electrode stockist, Metals And Welding Specialities E8018-B8, E8018-B8 electrode standard, E8018-B8 electrode uses.