

Metals And Welding Specialities is a trusted manufacturer and supplier of high-quality **E2594-16 Welding Electrodes**, designed to deliver reliable welding performance across a wide range of industrial applications. These electrodes are produced to meet the universal standard **ASTM A240 Grade S31254** with UNS number **S31254**, ensuring consistency, durability, and superior corrosion resistance. With their strong metallurgical properties, they are widely recognized for use in environments that demand excellent resistance against pitting, crevice corrosion, and stress corrosion cracking.



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The **E2594-16 Welding Electrodes** are formulated with an optimized chemical composition that enhances weld quality while minimizing the risk of hot cracking. Known for their high molybdenum and nitrogen content, these electrodes provide exceptional strength and toughness, making them suitable for critical welding operations in aggressive environments. Metals And Welding Specialities ensures each electrode adheres to stringent international quality standards, making them a reliable choice for industries such as chemical processing, pulp and paper, oil and gas, desalination plants, and marine engineering.



E2594-16 Welding Electrodes, E2594-16 Welding Electrodes Manufacturers, E2594-16 Welding Electrodes Suppliers, E2594-16 Welding Electrodes Stockists, E2594-16 Welding Electrodes Exporters

One of the key highlights of **ASTM A240 Grade S31254 electrodes** is their ability to withstand extreme chloride-rich conditions, where standard stainless steels often fail. The added nitrogen improves mechanical strength and increases resistance to localized corrosion, which makes **UNS S31254 electrodes** highly effective in welding duplex and austenitic stainless steels. Their stable arc characteristics, smooth bead appearance, and minimal spatter ensure ease of use and consistent weld integrity, even in challenging welding positions.

Industries trust **Metals And Welding Specialities** not just for product performance but also for technical expertise and dependable supply. Our **E2594-16 Coated Electrodes** are engineered to achieve high efficiency, reduce downtime, and extend service life of welded joints. They are ideally suited for applications in pressure vessels, storage tanks, heat exchangers, piping systems, and offshore structures, where safety and reliability are paramount. With their superior corrosion resistance and mechanical strength, these electrodes are the preferred choice for welding high-alloy steels in the most demanding environments.



E2594-16 Welding Electrodes in India, E2594-16 Welding Electrodes Manufacturers in India, E2594-16 Welding Electrodes Suppliers in India, E2594-16 Welding Electrodes Stockists in India, E2594-16 Welding Electrodes Exporters in India

By choosing Metals And Welding Specialities' **E2594-16 Welding Electrodes**, customers gain the assurance of long-lasting welds, reduced maintenance, and optimal performance under harsh service conditions. Our dedication to quality and innovation positions us as a leading supplier in the global welding consumables market, ensuring our clients benefit from products that meet international standards and exceed industry expectations.

## Specification E2594-16 Welding Electrodes



<b>Classification</b>	<b>AWS A5.4, E2594-16</b>
<b>Form</b>	Welding Electrode, Welding Rods
<b>Type Of Current</b>	AC-DCEP (Direct Current Electrode Positive)
<b>Welding Position</b>	F, V, OH, H
<b>Size</b>	2.0 mm, 2.50 mm, 3.15 mm, 4.00 mm, 5.0 mm
<b>AC/DC+</b>	AC or DC (+)
<b>JIS Specification</b>	BS 2926 19.9 A R
<b>Other Specification</b>	DIN 8556 E19 9 R 23 A

## AWS A5.4, E2594-16 Coated Electrodes Application & uses

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

## Equivalent Grade Of E2594-16 Welding Electrodes



Class	UNS	Oxford Alloys	BOHLER	SANDVIK
E2594-16	W39209	Alloy 2594-16	BOHLER AVESTA 2507/P100	EXATON 25.10.4.LB (2594-15)

## E2594-16 Welding Electrodes Chemical Composition



C	Cr	Cu	Fe	Mn	Mo	Ni	Nb	N	P	Si	S
0.03	16.58	3.55	Balance	0.56	0.20	4.78	0.24	0.04-0.08	0.018	0.44	0.02

## E2594-16 Welding Electrodes Parameters



Diameter		Process	Volt	Amps (flat)	Amps (V/OH)
in	(mm)				
3/32	(2.4)	SMAW	24-28	70-85	65-75
1/8	(3.2)	SMAW	26-30	85-110	80-90
5/32	(4.0)	SMAW	28-32	110-140	100-120
3/16	(4.8)	SMAW	28-32	120-160	110-130

## People Also Searched

ASTM A240 UNS S32205, AWS A5.4 E2209-16, ASTM A240 S31803, ASTM A240 UNS S32750, ASTM A240 UNS S32760, ASTM A240 UNS S31254, ASTM A240 UNS S32101, ASTM A240 UNS S32304, ASTM A240 UNS S32520, ASTM A240 UNS S32550, ASTM A240 UNS S32707, ASTM A240 UNS S32900, ASTM A240 UNS S22253, ASTM A240 UNS S32501, ASTM A240 UNS S32615, ASTM A240 UNS S32003, ASTM A240 UNS S32001, ASTM A240 UNS S31600, ASTM A240 UNS S31603, ASTM A240

UNS S30400, ASTM A240 UNS S30403, ASTM A240 UNS N08904, ASTM A240 UNS N08367, ASTM A240 UNS N08926, ASTM A240 UNS N08825, ASTM A240 UNS N06625, ASTM A240 UNS N10276, ASTM A240 UNS N06022, ASTM A240 UNS N04400, ASTM A240 UNS N05500, ASTM A240 UNS N08810, ASTM A240 UNS N08811, ASTM A240 UNS N07718, ASTM A240 UNS R56400, ASTM A240 UNS R30188.