

Stainless Steel Electrodes

Model Name	Standard	Chemical composition	Mechanical properties	Description
AP-E308	AWS E308-16 JIS E308-16 BS 19.9LR DIN E199R26 GB/T E308-16(A102)	C≤0.08 Mn 0.5-2.5 Si≤0.09 Mo 0.75 Cr 18-21 Ni 9-11	$\sigma_b \geq 550\text{MPa}$ $\delta 5 \geq 35\%$	Used for welding general stainless steel. It has excellent welding technology
AP-E308L	AWS E308L-16 JIS E308L-16 BS 19.9LR DIN E199LR23 GB/T E308-16(A002)	C≤0.04 Mn 0.5-2.5 Si≤0.90 Mo≤0.75 Cr 18-21 Ni 9-11	$\sigma_b \geq 520\text{MPa}$ $\delta 5 \geq 35\%$	User for welding extra low-carbon Cr 19Ni10 stainless steel. It has excellent resistance to the intercrystalline, and excellent welding technology.
AP-E316	AWS E316-16 JIS E316-16 DIN E19 123 R 23 BS 19.23 3LR GB/T E316L-16(A202)	C≤0.40 Mn 0.5-2.5 Si≤0.90 Mo≤2.0-3.0 Cr 17.0-20.0 Ni 11.0-14.0	$\sigma_b \geq 520\text{MPa}$ $\delta 5 \geq 30\%$	Used for welding stainless steel 0Cr 18Ni12Mo2 working in nonoxidative acid medium
AP-E316L	AWS E316-16 JIS E316-16 DIN E19 12 3 R23 BS 19.23 3R GB/T E316-16(A002)	C≤0.04 Mn 0.5-2.5 Si≤0.90 Mo≤2.0-3.0 Cr 17.0-22.0 Ni 11.0-14.0	$\sigma_b \geq 490\text{MPa}$ $\delta 5 \geq 30\%$	Used for welding extra low-carbon Cr 18Ni12Mo stainless steel, such as stainless steel equipments of urea, cellulose
AP-E347	AWS E347-16 JIS E347-16 DIN E29 9 R 23 BS 29.9R GB/T E347-16(A132)	C≤0.15 Mn 0.5-2.5 Si≤0.90 Mo≤0.75 Cr 28.0-32.0 Ni 8.0-10.5	$\sigma_b \geq 660\text{MPa}$ $\delta 5 \geq 22\%$	Used for welding important corrosion-resistant 0Cr19Ni11Ti stainless steel. It has excellent corrosion resistance to the intercrystalline
AP-E309	AWS E309-16 JIS E309-16 BS 2312R DIN E11221226 GB/T E309-16(A302)	C≤0.15 Mn 0.5-2.5 Si≤0.90 Mo≈0.175 Cr 22.0-25.0 Ni 12.0-14.0	$\sigma_b \geq 550\text{MPa}$ $\delta 5 \geq 25\%$	Used for welding 0Cr24Ni13 stainless steel and complex type of steel, different type of steel, high Cr steel, high Mn steel
AP-E309L	AWS E309L-16 GB/T E309L-16(A062)	C≤0.04 Mn 0.5-2.5 Si≤0.90 Mo≈0.75 Cr 22-25 Ni 12-14	$\sigma_b \geq 520\text{MPa}$ $\delta 5 \geq 25\%$	User for welding extra low carbon stainless steel 00Cr23Ni13. It has more excellent resistance to the intercrystalline
AP-E309MoL	AWS E309MoL-16 GB E309MoL-16(A042)	C≤0.04 Mn 0.5-2.5 Si≤0.90 Mo2.0-3.0 Cr 22.0-25.0 Ni 12.0-14.0	$\sigma_b \geq 540\text{MPa}$ $\delta 5 \geq 25\%$	Used for welding extra low carbon stainless steel 00Cr23Ni13Mo2. It has excellent corrosion-resistance
AP-E310	AWS E310-16 JIS E310-16 GB E316-16(A402)	C 0.08-0.2 Mn 1.0-2.5 Si≤0.75 Mo≤0.75 Cr 22.0-28.0 Ni 20.0-22.5	$\sigma_b \geq 550\text{MPa}$ $\delta 5 \geq 25\%$	Used for welding heat-resistant stainless steel 0Cr26Ni21. Cr steel and different type of steel under high temperature
AP-E307	AWS E7024 GB E307-16(A172)	C 0.04-0.14 Mn 0.30-4.75 Si≤0.90 Mo 0.5-1.5 Cr 18-21.5 Ni 9-10.7	$\sigma_b \geq 590\text{MPa}$ $\delta 5 \geq 30\%$	It has excellent crack resistance for welding ASTM307 steel and different type of steel

