

SOREX WELDING CO.,LTD.

Welding consumables for Petrochemical pipes (EO/EG)

SOREX[®]
The Professional Quality



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EO/EG are key material for petrochemical for antifreeze, coolant, fiber, and plastic. Also for Nonionic surfactant, Glycol ether, Ethanolamine, Anti-corrosion coating, and other chemical product. EO and EG are the third Ethylene derivatives beyond polyethylene and Polyvinyl Chloride.

Construction site of EO/EG facility



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The installment of construction site that produce EO/EG is complicated, mainly because a variety of steels are involved, such as carbon steel(e.g. 20# and Q235B), low alloy steel(e.g. 15CrMoG 、 P11), stainless steel(TP304/316), duplex stainless steel(A790 S32205), and nickel based alloy(UNS N04400). The corresponding welding consumables are as follows:



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Material of pipes	Methods of welding			
	Covered electrode	Solid wire	Submerged arc wire and flux	Flux cored wire
20	SL-50 (AWS A5.1 E7016)	STG-50 (AWS A5.18 ER70S-G)	SF-66xSW-H12K (AWS A5.17 F7A(P)4-EM12K)	SFC-71 (AWS A5.20 E71T-1C/1M)
20 GALV				
Q235B				
A672 C65 CL22				
L245				
A106 Gr.B				
A333 Gr6	SN-76C2L (AWS A5.5 E7016-C2L)	STG-80Ni1 (AWS A5.28 ER80S-Ni1)	—	SFC-71Ni (AWS A5.20 E71T1-GM)
150CrMoG	SR-86B2 (AWS A5.5 E8016-B2)	—	—	SMG-60 (AWS A5.28 ER80S-G)
A335 P11				
A691 1-1/4Cr CL22				
A691 1-1/4Cr CL42				
P22	SR-96B3 (AWS A5.5 E9016-B3)	—	—	—

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Material of pipes	Methods of welding			
	Covered electrode	Solid wire	Submerged arc wire and flux	Flux cored wire
TP304	SS-308 (AWS A5.4 E308-16)	STG-308 (AWS A5.9 ER308)	SF-30xSW-308 (AWS A5.9 ER308) SF-30xSW-309 (AWS A5.9 ER309)	SFC-308 (AWS A5.22 E308T1-1) SMG-308 (AWS A5.9 ER308)
A358 Gr304 CL1	SS-308L (AWS A5.4 E308L-16)	STG-308L (AWS A5.9 ER308L)	SF-30xSW-308L (AWS A5.9 ER308L) SF-30xSW-309L (AWS A5.9 ER309L)	SFC-308L (AWS A5.22 E308LT1-1) SMG-308L (AWS A5.9 ER308L)
A358 Gr304 /304L CL 1				
A312 Gr304 /304L CL 1				
A358 Gr321 CL1	SS-347 (AWS A5.4 E347-16)	STG-347 (AWS A5.9 ER347)	—	SMG-347 (AWS A5.9 ER347)
TP321				
TP316	SS-316 (AWS A5.4 E316-16)	STG-316 (AWS A5.9 ER316)	SF-30xSW-316 (AWS A5.9 ER316)	SMG-316 (AWS A5.9 ER316)
A358 Gr316 CL1				
TP316L	SS-316L (AWS A5.4 E316L-16)	STG-316L (AWS A5.9 ER316L)	SF-30xSW-316L (AWS A5.9 ER316L)	SMG-316L (AWS A5.9 ER316L)

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Material of pipes	Methods of welding			
	Covered electrode	Solid wire	Submerged arc wire and flux	Flux cored wire
A790 S32205	SS-2209 (AWS A5.4 E2209-16)	STG-2209 (AWS A5.9 ER2209)	SF-33xSW-2209 (AWS A5.9 ER2209)	—
A790 S31803				
UNSNO440 0	SNC-7 (AWS A5.11 ENiCu-7)	STG-400 (AWS A5.14 ERNiCu-7)	—	—

Construction site
(Low temperature water)



Construction site
(Main pipe)



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