

SAW (submerged arc welding) wires  
for mild and low alloyed steel



UP-100 (S2)		
Classification DIN EN ISO		Classification AWS
14171-A S2		A5.17 EM12, A5.23 EM12
Approvals		Material No.
TÜV 03275.05, CE, DB 52.045.02, GL		1.0494
Characteristics and application		
Submerged arc welding wire for standard CMn structural steels. Typical applications include shipbuilding, pressure vessels and general construction.		
Base materials		
For CMn and mild steels with yield strength up to ~380MPa (56ksi). S185-E360, S235JR-S355JR, S235J0-S355J0, S235J2-S355J2, S275N-S355N, S275M-S355M, P235GH-P355GH, P275N-P355N, P355M, P355Q, Pipeline steels L210-360, Shipbuilding grades A-E, AH36, DH36 ASTM: A36, A106 grades A/B/C, A139, A210 grades A1/C, A216 grades WCA/WCB/WCC, A234 grade WPB, A266 grades 1/2/4, A283 grades A/B/C/D, A285 grades A/B/C, A299 grades A/B, A515 grades 60, A516 grades 55, A656 grade 50 API: 5L grades X42-X56		
Typical analysis in %		
C	Si	Mn
0,09	0,08	1,05
Typical heat treatment		
Welding procedure (including preheat temperature, interpass temperature and PWHT) will be dependent on the base material being welded, including its thickness, and any applicable design codes.		