Carbon Steel Electrodes 碳钢焊条

Model Name	Standard	Chemical composition	Mechanical Properties	Description
UN-E6010	AWS E6010 DIN E4343C4 GB/T E4310	C≤0.20 Mn 0.3–0.6 Si≤0.2	δb ≥420MPa δs ≥330MPa δ5 ≥22% Akv(J) ≥27(–30℃)	For girth downward welding on all kinds of carbon steel pipes
UN-E6011	AWS E6011 JIS D4311 DIN E4343C4 BS E4343C13 GB/T E4311	C≤0.08 Mn 0.3–0.6 Si≤0.18	δb ≥420MPa δs ≥330MPa δ5 ≥22% Akv(J) ≥27(℃)	Welding of shipbuilding structures such as buildings and bridges, storage tanks, pipes and pressure vessel fittings.
UN-E7014	AWS E7014 GB/T E5014	C≤0.12 Mn≤1.25 Si≤0.90	δb ≥490MPa δs ≥400MPa δ5 ≥17% Akv (J)≥27(0℃)	It is suitable for welding of carbon steel and low alloy steel, such as welding of 16Mn, and structure of ships, vehicles as well as
UN-E7015	AWS E7015 GB/T E5015	C≤0.12 Mn≤1.6 Si≤0.75	δb ≥490MPa δs ≥400MPa δ5 ≥22% Akv(J)≥27(–30℃)	The deposited metal has excellent mechanical properties. It is used for welding middle–carbon and low–alloy steel structure, such as pressure containers.Bridges, and ship structure
UN-E7016	AWS E7016 JIS D5016 DIN E5154B(R)10 GB/T E5016	C≤0.12 Mn≤1.6 Si≤0.75	δb ≥400–560MPa δs ≥305MPa δ5 ≥22% Akv(J) ≥47(–20℃)	Welding of important structures made of low alloy steel with corresponding grade of strength.
UN-E7016-1	AWS E7016–1 GB E5016–1	C≤0.12 Mn≤1.60 Si≤0.70	δb ≥490MPa δs ≥400MPa δ5 ≥22% Akv(J) ≥27(–46℃)	Same as E7016,have better crack–resistance and low–temperature impact toughness.
UN-E7018-1	AWS E7018–1 GB E5018–1	C≤0.12 Mn≤1.60 Si≤0.70	δb ≥490MPa δs ≥400MPa δ5 ≥23% Akv (J)≥27(–46℃)	Added to more alloy, its low–temperature impact toughness is stronger than AWSE7018, suitable for welding key structure ,such as petrolenm platform on ocean and ships.
UN-E7024	AWS E7024 GB E5024	C≤0.12 Mn0.8–1.4 Si≤0.90	δb ≥490MPa δs ≥400MPa δ5 ≥17% Akv(J) ≥27(0℃)	Used for welding efficiently on carbon steel and low–alloy steel sheet with midddle–gauge such as ships, bridges, etc. Tt's suitable for downhand welding and flat fillet welding.