

# CA-506S × UC-36

For single and multi-layer welding of medium or thick mild steel and 490N/mm<sup>2</sup> class high tensile strength steel

AWS F7A6-EH14  
F7P6-EH14

## Applications

Butt and flat fillet welding of ships, vessels, bridges, machines, buildings, heavy duty steel structure and general fabrications. Butt welding of aluminum-killed steel for low temperature service used in LPG storage tanks, LPG tankers, low temperature service equipment, and other structures for cold regions.

## Characteristics

- (1) Excellent notch toughness at low temperature down to -50°C.
- (2) It deposits weld metal of good appearance even in low speed welding with metal with high currents.
- (3) Good mechanical properties can be obtained with single-layer welding using high heat input.
- (4) Applicable to both AC and DC(+).

## Notes on usage

- (1) Store the flux at the place of moisture free and dry the flux at 250~350°C for about one hour before use.
- (2) When the flux height is excessive, poor bead appearance may occur.
- (3) The use of the flux which has been re-used for welding in many times may cause deterioration of its usability. Therefore, the unused flux should be mixed properly with such used flux.

## Typical chemical composition of weld metal (%)

C	Mn	Si	P	S	Remarks	
					Base metal	PT(mm)
0.07	1.35	0.37	0.021	0.014	SM490A	25
0.06	1.28	0.31	0.016	0.010	EH36	20

## Typical mechanical properties of weld metal

YP N/mm <sup>2</sup> (MPa)	TS N/mm <sup>2</sup> (MPa)	EL (%)	IV (J)		Remarks		
			-20°C	-50°C	Base metal	PT (mm)	PWHT
470	578	30	90	70	SM490A	25	As weld
-	565	-	60	-	EH36	20	As weld

• Approval : ABS, BV, DNV, GL, LR