LCW-400

For welding of 55kgf/mm² class high tensile strength weather proof steel

AWS A5.5 E8016-G KS D 7101 DA5816W JIS Z3214 DA5816W

Applications

Welding of 55kgf/mm² class high tensile strength weather proof steels for pressure vessels, penstocks, bridges and rolling stock.

Characteristics

LCW-400 is a low hydrogen type electrode for all position with satisfactory weldability and X-ray performance.

Deposited metal shows excellent crack resistance and mechanical properties. It is suitable for welding comparatively thick plates of weather proof steel.

Notes on usage

- (1) Dry the electrodes at 350 \sim 400 $^\circ C$ for about one hour before use.
- (2) Adopt back step method or strike the arc on a small steel plate prepared for this particular purpose to prevent blowholes at the arc starting.
- (3) Keep the arc as short as possible.

Typical chemical composition of weld metal (%)

С	Mn	Si	Р	S	Cu	Ni	Cr
0.07	0.77	0.47	0.015	0.008	0.36	0.46	0.53

Typical mechanical properties of weld metal

YP	TS	EL	IV J (kgf-m)	
N/mm ² (kgf/mm ²)	N/mm ² (kgf/mm ²)	%	-20 ℃	
520(53)	620(63)	27	130(13)	

Size & recommended current range (AC or DC +)

Dia	. (mm)	3.2	4.0	5.0	6.0
L (mm)		350	400	400(450)	450
Amp.	F	90-130	130-180	180-240	250-310
	V&OH	80-115	110-170	150-200	-

Tip Color : Green