

UTP 8

Standards :

EN ISO 1071 : E C Ni-CI I
AWS A5.15 : E Ni-CI

**Graphite-basic coated stick electrode
for cast iron cold welding.
Universally applicable.**

Application field

UTP 8 is for cold welding of grey and malleable cast iron, cast steel and for joining these base metals to steel, copper and copper alloys, especially for repair and maintenance.

Welding properties

UTP 8 has excellent welding properties. The easily controllable flow permits spatterfree welding in all positions and with minimal amperage. The weld deposit and the transition zones are filable. No undercutting. Ideally suited for the combined welding with the ferronickel type UTP 86 FN (buttering with UTP 8 and filling with UTP 86 FN).

Mechanical properties of the weld metal

Yield strength $R_{p0,2}$ MPa	Hardness HB
approx.. 220	approx. 180

Weld metal analysis in %

C	Ni	Fe
1,2	balance	1,0

Welding instruction

Depending on the wall thickness, the preparation is made in U- or double U-form. The casting skin has to be removed on both sides of the welding area. Hold the stick electrode vertically with a short arc. Thin passes are buttered, their width not more than twice the diameter of the core wire. To avoid over-heating, the beads should not be longer than 10 times the stick electrode diameter. Re-move the slag immediately after welding and then peen the deposit carefully. Reignite on the weld deposit and not on the base metal.

Current type DC (-) / AC

Welding positions



Availability / Current adjustment

Stick electrodes	Ø mm x L	2,0 x 300	2,5 x 300	3,2 x 350	4,0 x 350
Amperage	A	45 - 60	60 - 80	80 - 100	110 - 140

Approvals

DB (No. 62.138.01)