



# HILCO HARDMELT 600

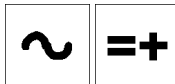
Stick electrodes – repair & maintenance – wear resistant

EN 14700: E Fe8

DIN 8555 : E 6-UM-60

**Coating type:**  
Basic

**Current:**



**Welding positions:**



Hardmelt 600 is our basic coated electrode for wear resistant surfacing parts of steel, cast steel and high Mn-steel, subject to abrasion, metal-to-metal wear, impact and/or compression stresses. Deposit weld metal has a martensitic structure, hardness of pure weld deposit approx. 600HB. After welding the deposit can be machined by grinding only.

## Applications:

Hardmelt 600 is particularly suitable under conditions of heavy abrasion and friction, combined with impact. Ideally suitable for applications involving rolling, sliding and metal-to-metal wear.

Applications are universal but typical for hardfacing parts e.g. agricultural, earth moving and stone crushing industry, hardfacing crane and mine car wheels, sprockets and gear teeth, skip guides, dredger buckets, scrapper blades, transferables, cable sheaves, tractor and shovel parts, dragline buckets, conveyor chains, hammer heads, clutch jaws.

## Chemical composition, wt. % weld metal – typical:

C	Mn	Si	Cr	Fe
0,50	0,40	2,30	9,0	bal.

## Mechanical properties, weld metal – typical:

Condition	Hardness
As welded	1 layer After soft annealing 780-820°C / oven After hardening 1000-1050°C / oil 1 layer on high Mn-steel 2 layer on high Mn-steel
	56-58 HRc approx. 25 HRc approx. 60 HRc approx. 22 HRc approx. 40 HRc

## Packaging and welding data:

Dia. mm.	Length mm.	Weight (kgs) 1000 pcs.	Current A
3,2	350	34,6	100-140
4,0	450	65,6	140-180
5,0	450	105,5	180-210