

Type Lime-basic

SMAW E3-UM-50-ST

Description

OK 85.58 is a hardfacing electrode for the repair welding of hot-working tools, hot trimming tools, punches and so on. The weld metal hardness can be increased by hardening and tempering, or by tempering alone. The weld metal can be step hardened. To avoid cracking, the preheat and interpass temperature should be at least 300°C and preferably 500°C.

Deposition data at max current

Length,

mm

350

350

350

350

Welding current, A

70-110

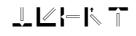
100-150

130-190

180-250

Welding current

AC, DC+ OCV 70 V



Classifications

DIN 8555 E3-UM-50-ST

ist 300°C	Tunio		wold n	aatal	oomn	ooitio	n 9/
	Туріс	ai ali	weld n	letai	comp	USILIO	1, 70
	С	Si	Mn	Cr	W	Co	Nb
	0.32	1.1	1.0	1.8	8.0	2.0	0.8
Typical mech. properties all weld meta							
	Weld metal hardness, a w (deposited on mild steel)42-50 HRCPreheat and interpass temperature 350°C:1st layer:47-52 HRC2nd layer:47- 52 HRC3rd layer:47- 52 HRCMachinabilityGrinding onlyAbrasion resistanceGoodHigh temp. wear resistanceVery good						
	Tempe Temp°C 100 200 300 400 500 550 600 650 700	ring ı	resista HRC(51 52 53 53 55 53 45 35				
	Annealing and hardening: Soft annealing °C: 850 Cooling: 10C/h down to 650°C, then cooling in air Hardening Temperature, °C: 1100-1150 Quenching: In air or oil						
t							
Arc voltage,	N. Kg weld metal/kg electrodes	tro wel	B. of elec- des/kg ld metal	met arc	H. weld al/hour time	Bur tim elec	T. n-off e, s/ trode
22	0.65		72.0		0.9 1.3		53 52
23 23	0.63		45.0 29.5		1.3 1.7		5 '5
25	0.66		18.0		2.2		8

Diameter,

mm

2.5

3.2

4.0

5.0