

Standards:

EN 14700: E Co 1
(DIN 8555): E 20-UM-300 CTZ

capilla® 524 EHL

Recovery: 170%

Product description:

High recovery stick electrode for the hardfacing of unalloyed, low alloyed and high alloyed steels. The weld metal is heat resistant and shows a good resistance against corrosive media. In the case of friction and sliding wear the alloy has a low friction coefficient against steels. Service temperatures up to 800°C. Good resistance against heat checking cracks (thermal fatigue).

Applications:

High heat resistant special alloy with good high temperature strength. The weld metal shows an excellent resistance to mechanical shock. This electrode is standardly used for the hardfacing of forging dies, punches and hot cutting tools. Furthermore suitable for the cladding of sealing surface of valves used in power plants and chemical industry.

Typical weld metal composition:

[wt. - %]

	C	Cr	Mo	Ni	W	Fe	Co
Min.		25	4,5	10	2		
Max.	0,1	27	6,0	11	3	3	Bal.

Mechanical properties:

(without heat treatment; minimum values at ambient temperature)

Hardness: 320 [HB]

Positions: PA, PB

Redrying: 300 – 320°C/2h

Dimension:

Ø [mm]	Length [mm]	Welding current [A]
2,5	350	70 – 110
3,25	350	100 – 140
4,0	450	140 – 180
5,0	450	180 – 220

Polarity
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