

Oakite® 90

Reverse current electrocleaner for steel and pure copper

PRIMARY APPLICATION

Oakite 90 is a powdered alkaline material designed to anodically remove smut, oil and other shop soils from steel prior to plating. It is also applicable for reverse current cleaning of copper and copper plated steel. The material features high conductivity and long solution life.

Additionally, Oakite 90 is notable for its formation of a controlled foam blanket that traps annoying mist and vapors but does not trap ignitable gasses. Because Oakite 90 does not contain soap, there is no rinsing problem.

CHEMICAL CHARACTERISTICS

chemical composition	blend of surfactants and alkalis including caustic soda, silicates and phosphates
physical form	as received: white powder as used: off-white solution
odor	faint aromatic
bulk density	1150 g/l (9.6 lbs/gal)
hygroscopic tendency	positive
foaming tendency	controlled
recommended diluent	water
maximum solubility	up to 60 g/l at 21 °C (8 oz/gal at 70 °F) 120 g/l at 82 °C (16 oz/gal at 180 °F)
behavior in hard water	flocculates
rinsability	complete
biodegradable surfactants	yes
phosphate-free	no
normal working concentrations	45 to 90 g/l (6 to 12 oz/gal)
normal operating temperatures	71 ° to 93 ° (160 ° to 200 °F)
pH at working concentrations	13.2 at 45 g/l, 21 °C (6 oz/gal, 70 °F)
effect of working solutions on metals	rate of metal loss from 24-hour immersion in Oakite 90, 40 g/l (5.3 oz/gal) at 49 °C (120 °F), projected for one year, is as follows:

metal (alloy)	mm/yr	in/yr
steel (1010)	0.00	0.000
stainless steel (316)	0.00	0.000
aluminum (1100)	attack	attack
brass	0.05	0.002
copper	0.08	0.003
magnesium	0.05	0.002
zinc	0.58	0.023

PACKAGING

Packaged in non-returnable fiber drums with poly lining, as follows: large drums: 205 kg (450 lb) net; small drum 86 kg (190 lb) net.

SHIPMENT

May be shipped by any common carrier. Freight classification is "Corrosive Solid, NOS, (sodium hydroxide) 8.

UN--1759, Cleaning Compound." Product Code No: 0900

STORAGE

Store in cool, dry area. Keep container closed when not in use.

effect of high temperature storage	none
effect of low temperature storage	none
effect of aging	none

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