

OAKITE® ALUMINUM CLEANER NST

Non-silicated liquid aluminum cleaner for tank application.

PRIMARY APPLICATION

Oakite Aluminum Cleaner NST is designed for tank immersion cleaning of aluminum and its alloys, including sheet stock, castings, extruded shapes and tubing. Effective in hard water, it does not leave the sludge or scale build-up that often occurs when silicated cleaners are used. Because of its mild deoxidizing properties, it brightens as well as cleans aluminum surfaces.

CHEMICAL CHARACTERISTICS

chemical composition	blend of surfactants, inorganic alkaline salts and coupling agents
physical form	as received: straw-colored liquid as used: nearly colorless solution
odor	sweet
specific gravity	1.064 at 20°C (68°F)
bulk density.....	1064 g/l (8.9 lb/gal)
viscosity	4 to 8 cps, Brookfield Spindle 1, 60 rpm
flash point	none
foaming tendency	moderate
recommended diluent	water
maximum solubility	complete
behavior in hard water	sequesters
rinsability.....	good
biodegradable surfactants	yes
phosphate-free	no
normal operating temperature	49° to 54°C (120° to 130°F)
normal working concentrations	5 to 10% by volume of water
pH at working concentrations	9.5-10.5 at 21°C (70°F)
effect of working solutions on metals.....	rate of metal loss from 24-hour immersion in Oakite Aluminum Cleaner NST, 5% by volume 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 (316L)	0.00	0.000
copper	0.00	0.000
aluminum (2024)	1.27	0.050
aluminum (1100)	0.51	0.020
galvanized steel	0.76	0.030
brass	0.00	0.000
magnesium	0.00	0.000

APPLICATION PROCEDURE

Oakite Aluminum Cleaner NST is normally used at 5 to 10% by volume of water, 49° to 54°C (120° to 130°F). Some aluminum alloys may undergo slight attack if temperatures exceed 54°C (130°F). Recommended immersion time is 2 to 5 minutes although this can vary depending upon the type and extent of soils to be removed.

SOLUTION CONTROL:

Concentrations may be titrated using Procedure 91 or Test Kit Procedure 126.

NOTES ON USE

(See Material Safety Data Sheet)

Do not use on food contact surface.

Ordinary steel tanks and coils may be used.

Safety and Handling Precautions: Oakite Aluminum Cleaner NST is a mildly alkaline industrial product. Direct contact may cause irritation of eyes. Prolonged contact may cause irritation of skin. May be harmful if swallowed. Do not get in eyes. Avoid prolonged skin contact. Wash thoroughly after handling. Do not take internally.

First Aid in Case of Contact: For **eyes**, flush with plenty of water for at least 15 minutes. If eyes are irritated, get medical attention. For **skin**, flush with water. If **swallowed**, drink plenty of water. Contact a physician.

KEEP OUT OF REACH OF CHILDREN.

DISPOSAL

Dispose of according to all federal, state and local regulations.

PACKAGING

Packaged in nonreturnable polyethylene containers as follows:

large drum: 208 liters (55 U. S. gallons)

small drum: 76 liters (20 U. S. gallons)

SHIPMENT

May be shipped by any common carrier. Freight classification is "Cleaning Compound, NOIBN, Liquid"
Product Code No: 3180.

STORAGE

Suitable for general indoor storage. Keep container tightly closed when not in use. Keep from freezing.

effect of high temperature storage none

effect of low temperature storage will freeze: is restored upon thawing and agitating.

Oakite Products, Inc. ("Oakite") warrants that the product or products described herein will conform with its published specifications. The products supplied by Oakite and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Oakite materials for their own particular purpose. Since buyer's conditions of use of products are beyond Oakite's control, Oakite does not warrant any recommendations and information for the use of such products. OAKITE DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.

Chemetall
Oakite



Oakite Products, Inc. P.O. Box 602, 50 Valley Road, Berkeley Heights, NJ 07922 • **Oakite Canada Limited** 115 East Drive, Bramalea, Ontario L6T1B7
Tel. (800) 526-4473 (908) 464-6900 FAX (908) 464-4658 Web site: www.oakite.com E-Mail: oakite.products@chemetall.com
Distributors and Licensees Worldwide