

# Oakite® 61 B

**An Inhibited alkaline tank immersion cleaner for aluminum and aluminum alloys approved under Boeing Specification BAC 5749.**

## PRIMARY APPLICATION

Oakite 61 B is an inhibited, alkaline tank immersion cleaner for aluminum and aluminum alloy castings, forgings and sheet. It is especially designed to remove stenciled identification inks (even baked-on inks), oils and shop soils with no attack on the base metal. After rinsing, it provides a chemically clean, water-break free surface. The material is free-rinsing and may be air-agitated if desired.

Oakite 61 B may also be used for soak tank cleaning of aluminum cake pans, meat molds and freezer pans in food plants. It contains ingredients acceptable to the FDA and is authorized by the USDA for use in federally inspected meat and poultry plants.

## CHEMICAL CHARACTERISTICS

chemical composition .....	surfactants and alkaline salts, including silicates
physical form .....	as received: white granular powder
	as used: colorless solution
odor .....	none
bulk density.....	7.5 lb/gal at 68°F
viscosity .....	not applicable
flash point .....	none
hygroscopic tendency.....	moderate
foaming tendency .....	moderate
recommended diluents .....	water
maximum solubility .....	37.5 g/l at 21°C (5 oz/gal at 70°F)
behavior in hard water .....	sequesters
rinsability.....	good
biodegradable surfactants .....	yes
phosphate-free .....	no
normal working temperatures.....	71° to 88°C (160° to 190°F)
normal working concentrations.....	22.5 to 60 g/l (3 to 8 oz/gal)
pH at working concentrations .....	12.4 to 12.8
effect of prolonged boiling .....	none

effect of working solutions on metals.....rate of metal loss from 6-hour static immersion in Oakite 61 B, 30 g/ℓ (4 oz/gal) at 88°C (190°F), projected for one year, is as follows:

metal (alloy)	mm/yr	in/yr
aluminum (1100, 2024)	0.00	0.000
steel	0.00	0.000
stainless steel	0.00	0.000
brass	0.46	0.018
copper	0.43	0.017
magnesium	0.00	0.000
zinc	1.98	0.078

## APPLICATION PROCEDURE

### For Removing Stencil Inks, Oils, Light Films, Shop Soils

Use 61 B at 22.5 to 60 g/ℓ (3 to 8 oz/gal) of cold water (depending upon the soils). Heat to between 71°C and 88°C (160° to 190°F) and immerse parts for 5 to 10 minutes. Air agitation may be used to improve cleaning. Follow this stage with a rinse.

### For Removing Food Residues from Meat Molds, Cake and Fryer Pans

Apply 61 B at 30 to 60 g/ℓ (4 to 8 oz/gal) of water (depending upon the soils) and heat to 88°C (190°F). Immerse as necessary to assure thorough soil removal. Rinse. (Air agitation is helpful.)

### Solution Control:

Concentrations are titrated using Gardotest Procedure 122.

Sample Size: 2.0 mls

Factor: 6.0

For free and total alkali, use Gardotest Procedure 123. (See Procedure)

## EQUIPMENT

Chemical Dispensing: The Chemetall Oakite Slurry Feed System can be used to premix powdered products with water allowing them to become slurries. The slurries can then be fed into the process automatically with a process controller and/or the proper chemical feed pump. The system includes a slurry tank, tank stand, mixer and chemical feed pump. Please contact the Chemetall Oakite Process Equipment and Engineering Department for specific recommendations.

## NOTES ON USE (See Material Safety Data Sheet)

**Safety and Handling Precautions:** Oakite 61 B is a moderately alkaline industrial product containing biodegradable surfactants. May cause burns to eyes. Causes skin irritation. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wear rubber gloves, safety goggles or face shield, and suitable protective clothing when handling dry powder or solutions. Wash thoroughly after using. Do not take internally.

**First Aid in Case of Contact:** Flush skin or eyes with plenty of water for at least 15 minutes. For **eyes**, get medical attention. If **swallowed**, give several glasses of water or milk to drink followed by dilute vinegar, lemon juice or other citrus fruit juice. Contact a physician.

## KEEP OUT OF REACH OF CHILDREN

## DISPOSAL (See Material Safety Data Sheet)

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

## PACKAGING

Packaged in nonreturnable fiber drums with poly bags as follows:

large drum: 400 lb/385 lb net  
small drum: 170 lb/162 lb net

## SHIPMENT

May be shipped by any common carrier. Freight classification is "Cleaning Compound, NOI, Powder".  
Product Code: 0612.

## STORAGE

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

effect of high temperature storage ..... some caking  
effect of low temperature storage ..... none  
effect of aging ..... some caking

Oakite Products, Inc. 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**



ISO 9001:2000  
FM 93653

---

Corporate Headquarters and Eastern Branch (800) 526-4473 • Central Branch (Midwest) (877) 941-3800  
Western Branch (800) 331-1197 • Oakite Canada Limited (800) 668-4318  
Chemetall Mexicana 011 52 55 5656 1490 • Chemetall do Brasil Ltda. (5511) 4066 8800  
Website: [www.oakite.com](http://www.oakite.com) • E-mail: [oakite.products@chemetall.com](mailto:oakite.products@chemetall.com) • Shop online at [www.oakitestore.com](http://www.oakitestore.com)

F12623R7-5/95  
Printed in the USA