



# Bernite 31

Bernite 31 is an alkaline cleaner used to remove heavy deposits of oil, grease and soils from aluminum and brass surfaces. It is used as a hot soak cleaner with parts immersed in a solution for a few minutes. It contains NO caustic soda so that this material can be used on parts that are affected by caustic soda. It will not etch aluminum, nor will it darken brass surfaces. It is supplied as a dry powder offering a high degree of alkalinity, wetting and emulsifying properties.

Bernite 31 is used at 8 ounces per gallon of hot water (150°F to 180°F). Immerse parts for several minutes depending upon the type and extent as well as the accessibility of the soils. This should be followed by a thorough water rinse. Mild steel tanks can be used and caution in handling this material should be exhibited because of the degree of alkalinity. It is suggested that goggles or face shield, rubber gloves and aprons be used. Adequate ventilation is also suggested.

## Features & Benefits

Alkaline powdered cleaner	Removes heavy deposits from aluminum and brass
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## Operating Conditions

Subject: Analysis of residual Bernite 31 following a cleaning and rinsing procedure.

Bernite 31 contains the surfactant, Sodium dodecyl benzene sulphonate 85% CAS # 25155-30-0. It has been determined that this component material be the best to identify the residue of Bernite 31. The following analytical methods of determinist presence can be used:

1. Surface Tension Evaluation- Compare water surface tension (35 dynes/square centimeter) to rinse water. A reduction of surface tension in rinse water indicates continued presence of surfactant.
2. Photometric method- Evaporate rinse water to concentrate residue; dissolve in methanol; run infra-red spectra and compare to standard Sodium dodecyl benzene sulphonate 85% spectra for identification. We will supply you with the above raw material to allow you to develop those standards that would be considered acceptable.



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## Our People. Your Problem Solvers.

For more information on this process,  
please call us at 203.756.5521 or email: [techservice@hubbardhall.com](mailto:techservice@hubbardhall.com)

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**<sup>136</sup>.