

AquaKlean Die Cast Cleaner

Technical Data Sheet

Die Cast Aluminium Cleaner

An excellent multi-metal cleaner for removing tenacious oils, greases and particulate. Highly effective Die Cast Aluminium cleaner that does not attack metal and produce smut.

Description:

NuGeneration Technologies' AquaKlean Die Cast Cleaner is a pH neutral, natural liquid cleaner, formulated with the natural solvent derived from orange peels. AquaKlean Die Cast Cleaner offers environmental compatibility, user safety and low cost for disposal for heavy duty cleaning of all surfaces, including sensitive Die Cast Aluminium, which easily forms tenacious, and hard to remove black smut if exposed to improper cleaners. AquaKlean Die Cast Cleaner is an excellent cleaner for tenacious oils and greases, and a great alternative to toxic petroleum solvents, chlorinated solvents and mild alkaline cleaners traditionally used on Die Cast Aluminium parts..



Characteristics:

AquaKlean Die Cast Cleaner was formulated to be effective at cleaning in a broad range of applications, and safe for use on most metals, including ferrous and non-ferrous alloys such as Copper/Copper alloys, Aluminium/Aluminium Alloys, Die Cast Aluminium, Galvanized surfaces, etc. AquaKlean Die Cast Cleaner may be used after vibratory finishes, where Die Cast Aluminium is exposed to vibratory fluids and lubricants which produce smut and leave residues on surface finished parts. AquaKlean Die Cast Cleaner removes these soils and lifts away Silicon particulates, leaving the surface lustrous, clean, and ready for post-treatments such as painting.

Directions for Use:

AquaKlean Die Cast Cleaner is effective at ambient temperatures and should be used at 20% by volume of water, minimum. The higher concentrations of product helps prevent attack on the Die Cast Aluminium parts, and subsequent formation of smut. The parameters can vary due to the type and extent of soils to be removed. NuGeneration Technologies recommends that AquaKlean Die Cast Cleaner be operated at a maximum temperature of 40 °C, and parts be run in ultrasonics for 30 seconds to 5 minutes. Rinse immediately after processing.

Product Benefits

- Works on a broad range of soils.
- Environmentally friendly formula, biodegradable.
- Excellent foaming and residue-free rinsing properties.
- Non-hazardous, low disposal costs. pH Neutral!

Gasket & Polymer Compatibility

Material	Compatibility
CPVC	1
Epoxy	3
Kel-F (PCTFE)	1
Kynar (PVDF)	1
Nylon	1
Phenolic	1
Ryton (PPS)	1
Teflon	1
Viton (FKM)	1
Buna-N (NBR)	2
Cycolac (ABS)	2
PVC	2
Polyethylene	3
Polypropylene	3
Natural Rubber (NR)	3
Neoprene	3
Nitrile	3
Tygon	3

COMPOUND COMPATIBILITY RATING

- 1 - Satisfactory
- 2 - Fair
- 3 - Unsatisfactory

Metals Compatibility

Material	Compatibility
Aluminium	Compatible
Cast Steel	Compatible
Monel	Compatible
Brass	Compatible
Copper	Compatible
Nickel	Compatible
Bronze	Compatible
Hastelloy	Compatible
Stainless Steel	Compatible
Carbon Steel	Compatible
Inconel	Compatible
Tantalum	Compatible
Cast Iron*	Incompatible
Incoloy 825	Compatible
Titanium	Compatible
Ti6Al4V	Compatible
Zinc	Compatible
Zinc Plating	Compatible
Galvanized Surfaces	Compatible
Magnesium*	Incompatible
Die Cast Aluminium	Compatible

Physical Properties



Physical Properties

Use concentration by volume	20% to Full Strength
Bulk Density	8.5 lbs/gal
Operating Temps	Ambient to 40 °C
pH, Concentrate	7.0
pH, @5%	7.0
VOC (Concentrate)	111 g/L
Flash Point	None
Chelates	No
Soluble in water	Complete
Biodegradable	Yes
Corrosive	No

Availability: 5-gallon and 55-gallon containers, 275-gallon totes and bulk tankers.

Shipment: Non-regulated material, liquid

Storage: Keep out of direct sunlight. Keep from freezing. Store between 40 ° F - 120 °F.

Disposal: Dispose of in accordance with local, state, and federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-NuGen or email: info@nugentec.com.

Regulatory: This product is classified and labeled according to the Globally Harmonized System (GHS).

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EMERGENCY OVERVIEW:

This product may cause irritation to the skin and eyes. May cause an allergic skin reaction.

SAFETY:

Please make sure you have read and understand the product label and SDS before using this product. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Wash thoroughly after handling. Observe label precautions.