

CAST CLEAN S-A

ALUMINUM CASTING ALKALINE CLEANER

▶ PRODUCT DESCRIPTION

Cast Clean S-A is a mild to moderate alkaline cleaner with RP, safe on aluminum for both immersion and spray applications.

Cast Clean S-A is specially formulated cleaner, designed specifically for cast aluminum, but can also be used on ferrous substrates. Formulated with an exceptionally high level of detergency and wetting agents, Cast Clean S-A will wash away residual die cast spray, solder, and smut. The powerful emulsifying properties prevent the redeposition of contaminants onto the part. Cast Clean S-A can be used for spray applications. Cast Clean S-A performs very well in hard or soft water; however, as is the case with all aqueous cleaners, the lower the hardness of the water, the less cleaner will be used.

▶ FEATURED BENEFITS

- Extremely high detergency characteristics for superior penetration and wetting
- Extremely low foaming characteristics ideal for high-pressure spray and pressure washers
- Unique formulation provides for residue free parts ideal for post painting and plating operations
- Exceptional hard water stability keeps washers clean and free of maintenance
- Lean concentrations assure cost effectiveness and low consumption
- Contains no phosphates, nitrites, or silicones
- Contains silicates

▶ APPROVALS

- Compliant for California SCAQMD Rule 1144

APPLICATION



COMPATIBLE METALS

Aluminum
Cast Iron
Carbon Steel
Tool Steel
Stainless Steel

OPERATION/APPLICATION METHOD

Spray
Immersion Tank/Agi-Lift
Ultrasonic Bath

RECOMMENDED OPERATING TEMPERATURE

Ambient to 160°F (71°C)

RECOMMENDED DILUTION RANGE

2 – 10% v/v

FOAMING CHARACTERISTICS

Low

RUST PROTECTION

Limited Indoor





TYPICAL PROPERTIES

Fluid Type	Alkaline cleaner
Appearance	Clear yellow liquid
Odor	Slight
Specific Gravity, 60°F (15.6°C)	1.05
Weight, 60°F (15.6°C)	8.66 lbs/gal.
pH (concentrate)	10.5 – 12.7
pH (5% dilution)	10.0 – 11.0
VOC, ASTM 1868	52.7 grams/liter

PRODUCT APPLICATION / USAGE

Cast Clean S-A is typically recommended for aluminum alloys but can be used for facilities cleaning both ferrous and aluminum and requiring a single cleaner for their immersion washer. Always add Cast Clean S-A to water.

Operation	Temperature	Aluminum & Steel Alloys
Spray Washer	140° to 160°F (60° to 71°C)	4 – 6%
Immersion Tank/Agi-Lift	140° to 160°F (60° to 71°C)	5 – 6%
Ultrasonic Bath	Ambient to 160° (to 71°C)	4 – 5%

MIXING DATA

Concentration control is easily maintained with a hand held refractometer or Chemtool titration kit. Always add product concentrate to the water, not water to product concentrate.

Concentration	10%	7%	5%	4%	2%
Alkalinity (factor = 0.58) Titration Test Kit (# drops 0.5 N HCl)	15	12	9	7	4
Refractometer Reading	2.4	1.6	1.2	1.0	0.4

PRODUCT CODE

4182200000

HEALTH AND SAFETY

For health and safety guidance, please refer to the Chemtool SDS (Safety Data Sheets).