AlloySystem

Two-part paint stripper & decarboniser · safe on aluminium and zinc

KT-CC-ALSSYS

DILUTION	TEMPERATURE	CYCLE TIME	SUPPLIED AS
10% v/v	**40–70 °C**	**30 min**	**Two parts**
of the mixed system	heating required	range 10–60 min	AlloySolve + AlloySalt

DESCRIPTION

AlloySystem removes paint and organic soils from ferrous and non-ferrous metals — including aluminium and zinc, which conventional caustic strippers attack. AlloySolve provides the solvent action and AlloySalt the alkaline component; together they penetrate stubborn paint finishes and baked soils, while emulsifiers prevent redeposition and paint residues filter out easily. In many applications a drop-in replacement for methylene chloride strippers, needing only heat. Safe on steel, cast iron, aluminium and zinc — not on magnesium.

KEY BENEFITS & industries

- Safe on aluminium and zinc — unlike caustic strippers
- Synergistic solvent and detergent action on stubborn finishes
- Paint residues filter out easily
- Drop-in replacement for methylene chloride in many applications

Heavy machinery refurbishment · Aerospace component stripping · Alloy & wheel refinishing · General manufacturing

TYPICAL CHARACTERISTICS

from SDS §9

AlloySystem, mixed	Light brown liquid · fruity odour · boiling point > 100 °C
AlloySolve (KT-CC-ALSV)	Clear brown liquid · density 1.05 g/cm³ · pH 7–8 · flash point 101 °C · insoluble in water
AlloySalt (KT-CC-ALST)	Clear liquid · pH 12.5 · no flash point · completely soluble

Typical values only — consult the specification sheet. Sourced from the Kleentek SDS (KT-CC-ALSSYS, KT-CC-ALSV and KT-CC-ALST).

USE RECOMMENDATIONS

System	Ultrasonic · agitated immersion · spray wash · static tanks with agitation
Mix ratio	AlloySolve and AlloySalt in matched volumes (1:1)
Dilution	**10% v/v** of the mixed system, in water
Temperature	**40–70 °C** — heating is required for the system to work; typically 56–65 °C
Cleaning duration	10–60 min; typically 30 min
Agitation	Static tanks perform better with agitation — air agitation is often adequate, ultrasonics gives the best result
Rinse	Rinse components thoroughly with water before drying

Filter paint residues from the bath to extend solution life; Kleentek can advise a maintenance regime for your tank.

MATERIAL COMPATIBILITY

Ferrous — steel · cast iron
Non-ferrous — aluminium · zinc
Plastics & composites — HDPE · polypropylene · EPDM · Viton
Other — glass

Not suitable
Magnesium — not safe on magnesium.
Acrylic, polycarbonate and ABS — the solvent component crazes them. Nitrile seals are swollen by the solvent; use EPDM or Viton.

Always confirm compatibility by testing with your specific contaminants under your specific cleaning conditions.

SOILS REMOVED

Paint · organic soils · baked soils

AVAILABILITY & quality

10 L	20 L
KT-CC-ALSSYS-10 · two-part	KT-CC-ALSSYS-20 · two-part

Two-part system — AlloySolve and AlloySalt in matched volumes; MOQ 10 L, components also available separately.
Manufactured under Kleentek's ISO 9001:2015 certified quality management system — a Certificate of Analysis for the supplied batch is available on request.

TRANSPORT

Not classified as Dangerous Goods for transport. AlloySalt is a Schedule 5 (Caution) poison.

SAFETY & HANDLING

Classified as hazardous — GHS Warning for AlloySolve and the mixed system; AlloySalt is classified Danger. Wear protective gloves, protective clothing and eye/face protection when handling either component, and maintain adequate ventilation. Refer to the Safety Data Sheets (KT-CC-ALSSYS, KT-CC-ALSV, KT-CC-ALST); the SDS takes precedence over this document in all matters of safety.