

MetalTek 100

Heavy-duty decarboniser & stripper for ferrous metals · caustic alkaline concentrate

KT-CC-MTT100

DILUTION 10–30% typically 25% v/v	TEMPERATURE 60–80 °C 80 °C maximum	CYCLE TIME Varies soil-load dependent	PH CONCENTRATE 14 strongly alkaline
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DESCRIPTION

MetalTek 100 simultaneously removes grease, rust, scale, carbon and paint from ferrous metals in ultrasonic and immersion tanks — one bath in place of separate degreasing, derusting and stripping steps. A concentrate of surfactants, sequestrants and caustic alkali, it is particularly effective on burned-on polymers, carbon build-up, paint and lead deposits, and produces no significant corrosion on ferrous metals when used as directed. Supplied as a liquid for easy dosing and top-up.



KEY BENEFITS

& industries

- Degreases, derusts, decarbonises and strips paint in a single process
- Effective on burned-on polymers and lead deposits
- Liquid concentrate — easier and safer to dose than caustic powders
- No significant corrosion on ferrous metals when used as directed
- Completely water-soluble; rinses with water
- Bath is titration-controlled for consistent results

Automotive & engine reconditioning

Heavy machinery

Mould & tool cleaning

Printing — anilox rollers

TYPICAL WORK

Decarbonising engine components · stripping paint from cast iron and steel housings · cleaning steel anilox rollers and rubber moulds

TYPICAL CHARACTERISTICS

from SDS §9

Form / appearance	Clear liquid, colourless to brown
Odour	Odourless
Solubility in water	Completely soluble
Density	1.26 g/cm ³
pH, concentrate	14
Boiling point	> 100 °C
Flash point	Non-combustible

Typical values only — consult the specification sheet. Sourced from the Kleentek SDS (KT-CC-MTT100).

USE RECOMMENDATIONS

System	Ultrasonic and immersion tanks
Dilution	10–30% v/v, typically 25% in water
Cleaning temperature	60–80 °C — 80 °C maximum
Cleaning duration	Soil-load dependent — establish by trial on first use
Rinse	Rinse thoroughly with water before drying

Check bath strength weekly, or after heavy work, and top up to the working concentration rather than letting it drift. At the top of the range this is a hot caustic solution — keep the tank lidded where practical and allow parts to drain before handling.

**MATERIAL
COMPATIBILITY**

Ferrous — cast iron · carbon steel · steel
Plastics & composites — HDPE · polypropylene · nitrile · EPDM · Viton

Not suitable

Aluminium, zinc and tin are attacked rapidly. Glass and ceramics will be etched.

Magnesium · cadmium plating · brass and bronze · soft solder. Painted surfaces are stripped — that is the intended action. Acrylic and polycarbonate are crazed by caustic.

Rinse components thoroughly with water before drying. Always confirm compatibility by testing under your specific cleaning conditions.

SOILS REMOVED

Grease · rust · scale · carbon · paint · burned-on polymers · lead deposits

**CONCENTRATION
VERIFICATION**

titration

BURETTE METHOD

Sample 10 mL bath + 100 mL DI
Indicator Phenolphthalein, 6–8 drops
Titrant 1.0 N HCl
Endpoint Pink colour disappears
Result **$\text{mL} \times 2.92 = \% \text{ v/v}$**

BATH CONTROL

Check Weekly, or after heavy work
Adjust Top up to the working concentration

**AVAILABILITY
& quality**
10 L

KT-CC-MTT100-10

20 L

KT-CC-MTT100-20

200 L

KT-CC-MTT100-200

1,000 L

KT-CC-MTT100-1000

Minimum order quantity 10 L. Manufactured under Kleentek's ISO 9001:2015 certified quality management system — a Certificate of Analysis for the supplied batch is available on request.

TRANSPORT

Dangerous goods — UN 1824, Class 8, PG II. Proper shipping name: SODIUM HYDROXIDE SOLUTION.

SAFETY & HANDLING

Classified as hazardous — GHS Danger: causes severe skin burns and eye damage (Category 1A/1); may be corrosive to metals. Wear chemical-resistant gloves, protective clothing and eye/face protection. Refer to the Safety Data Sheet; the SDS takes precedence over this document in all matters of safety.