

AquaVantage® 815 GD

Immersion & ultrasonic cleaning detergent · mildly alkaline concentrate

KT-CC-BLN-815GD

DILUTION 7–30% typically 10%	TEMPERATURE 54–77 °C typically 60–66 °C	CYCLE TIME 3–10 min range 1–30 min	PH CONCENTRATE 12 mildly alkaline
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DESCRIPTION

AquaVantage 815 GD removes soils during the manufacture, repair and overhaul of precision components. It is formulated for immersion, mildly agitated and ultrasonic tanks, and cavitates efficiently across its full working temperature range. The mildly alkaline solution rinses free to leave a water-break-free surface, and is non-corrosive and non-staining to virtually all metals — safe on aluminium, titanium and high-value alloys.



KEY BENEFITS

& industries

- Cavitates at all working temperatures for consistent soil removal
- Extends bath life, reducing consumption and disposal
- In-process corrosion control
- Free rinsing — permits improved adhesion
- Separates oil effectively for easier skimming
- Fewer cleaning reworks and rejects
- RoHS compliant
- Contains no cyanides or sulphides

Aerospace MRO

Defence

Engine reconditioning

Precision manufacturing

Oxygen / LOX service

Rail

TYPICAL CHARACTERISTICS

from SDS §9

Form / appearance	Clear blue liquid
Odour	Mild
Solubility in water	Soluble
Specific gravity	1.08
pH, concentrate	12
Boiling point	100 °C
Foaming tendency	Moderate to high

Typical values only — consult the specification sheet. Sourced from the Kleentek SDS (KT-CC-BLN-815GD, v1.2).

USE RECOMMENDATIONS

System	Immersion and ultrasonic tanks
Dilution	7–30%, typically 10% — LOX/breathable oxygen 7–12% · metal finishing 7–25% · repair & overhaul 7–30%
Cleaning temperature	54–77 °C , typically 60–66 °C
Cleaning duration	1–30 min; typical parts clean in 3–10 min
Rinse	A heated rinse may improve performance; some OEM specifications require one. Final-rinse conductivity: ultra-clean < 50 µS/cm · precision < 500 µS/cm · gross > 500 µS/cm

To avoid spotting, keep parts wet between processing stages.

**MATERIAL
COMPATIBILITY**

Ferrous — carbon steel · stainless steel · steel
Non-ferrous — aluminium · cadmium plating · chrome plating · copper alloys & plating** · Hastelloy · Inconel · magnesium & alloys · Monel · Ni-Cad plating · nickel, alloys & plating · titanium & alloys
Plastics & composites — acrylics · epoxy resin · HDPE · nitrile rubber · polypropylene · PVC
Other — glass · painted surfaces

Not suitable

Zinc, tin and soft solder are not on the approved list — test before use.

** Minor discolouration may occur on copper under certain conditions. Always confirm compatibility by testing with your specific contaminants under your specific cleaning conditions.

SOILS REMOVED

Buffing compounds · carbon · coolants · particulate dirt · fats · flux · grease · inks · oils (general, cutting, drawing, forming, honing, hydrocarbon, lubricants, self-emulsifying, silicone, sulphur/chlorinated, water-soluble)

BATH MAINTENANCE

Bath life, cleaning performance and corrosion protection all depend on how the tank is maintained. Monitor concentration by titration, skim separated oils regularly, and top up to the working concentration rather than letting it drift.

**CONCENTRATION
VERIFICATION**

titration

KIT — 5 ML

Sample 5 mL
 Titrant 1.0 N HCl
 Indicator Bromophenol blue, 2 drops
 Result **$\text{drops} \times 0.81 = \%$**

KIT — 10 ML

Sample 10 mL
 Titrant 1.0 N HCl
 Indicator Bromophenol blue, 3 drops
 Result **$\text{mL} \times 0.42 = \%$**

BURETTE METHOD

Sample 50 mL
 Titrant 0.5 N HCl
 Endpoint pH 3.8
 Result **$\text{mL} \times 1.25 = \%$**

APPROVALS

& conformance

Airbus AIP1 09-01-003; CML 08AKB1 · Airbus UK ABP 8-1290 · American Eurocopter AEC QA-DCR/10-06/01 · Boeing BAC 5749; BAC 5753; BAC 5763; HP 9-25 · Boeing (McDonnell Douglas) DPM 6373; DPS 9.341-1; P.S. 12024 · Bombardier BAPS 180-040; PPS 31.04 · Ford Tox #150887 · GE Aviation CT-882 · Honeywell CMM; Standard Practices Manual · International Aero Engines V2500; CoMat 01-487 · Lockheed Martin EPS G32.016; LMA-PG006 Rev B; STP-57301 · Meggitt AP-842 (32-46-35) · NASA oxygen-service cleaning · Northrop C-24 · Pratt & Whitney PMC 1437-1; SPMC 184; SPOP 209; SPS 184 · Rolls-Royce CSS 204 Type A; OMAT 1/24S · Safran PR-1500; DMP 13-300 · Sikorsky SS 8423 Rev 5 · SNECMA CFM56 Manual, CP2597 · UTC Aerospace (Rohr) ML 21304; RMS 1533; RPS 17.23 Rev AE

Test compliance

ARP 1755B stock loss (Cat. 10) · ASTM F-483 total immersion corrosion · F-484 stress crazing of acrylics · F-485 unpainted aircraft surfaces · F-502 painted aircraft surfaces · F-519 hydrogen embrittlement (Type 1c) · F-945 titanium stress corrosion · F-1110 sandwich corrosion · F-1111 low-embrittling cadmium plate · PWA 36604 Rev D

AVAILABILITY

& quality

10 L

KT-CC-BLN-815GD-10

20 L

KT-CC-BLN-815GD-20

200 L

KT-CC-BLN-815GD-200

1,000 L

KT-CC-BLN-815GD-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

Not classified as Dangerous Goods for transport.

SAFETY & HANDLING

Refer to the Safety Data Sheet (KT-CC-BLN-815GD) for classification, handling, storage, transport, spill response and disposal guidance. The SDS takes precedence over this document in all matters of safety.