



FORMULA 515DD

Double-Duty Cleaner Degreaser

**An Economical,
One-Product
Solution Effective
on a Wide-Range of
Soils and Substrates**



**Immersion
& Ultrasonic
Detergent**

**Spray Wash
Detergent**

Double-duty cleaner degreaser is tough enough for immersion & ultrasonic tanks ... yet low foaming for spray wash systems. This one-product solution is effective on a wide-range of soils and substrates. Plus it's economical.

- **Universal Parts Cleaner** – One-Product for Both Immersion & Ultrasonic and Spray Wash Cleaning
- **Powerful Degreaser** – Cleans Most Soils at 5-10% Solution
- **Versatile** – Cleans a Wide Range of Soils & Substrates
- **Economical**

Benefits

- **Water-Based, Dilutable Formulation** – For Environmental Safety & Economy of Use
- **Water-Dilutable Formulation** – For Environmental Safety & Economy of Use
- **Extends Bath Life** – Creates Labor Savings & Reduces Costs
- **In-Process Corrosion Control**
- **Low Foaming**
- **Free Rinsing** – Cleaner Parts & Simplified Cleaning
- **Low Evaporation Rate**

Greener 9 Ways

More user and environmentally friendly, reducing costly paperwork

1. No Ozone Depleting Substances
2. No Global Warming Potential
3. Moderate Caustic
4. No Glycol Ethers
5. No Chelants
6. No Butyl
7. Recycles Easily
8. Biodegradable
9. RoHS Compliant

Industry Approvals & Conformance

- USDA A1 (LG)

FORMULA 515DD

Performance Properties

Substrates

Formula 515DD is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with Formula 515DD include*:

Ferrous Metals: Carbon Steel • Stainless Steel

Non-Ferrous Metals & Alloys: Aluminum • Brass** • Chrome Plating • Copper (Alloys & Plating)** • Magnesium & Magnesium Alloys** • Tin • Titanium & Titanium Alloys

Plastic & Composites: Epoxy Resin • High Density Polyethylene/HDPE • Nitrile Butadiene Rubber • Polypropylene/PP • Polyvinyl Chloride/PVC • Vinyl

Other: Concrete

Soils

Formula 515DD removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with Formula 515DD include*:

Buffing Compounds • Carbon • Coolants • Dirt (Particulate) • Fat • Flux • Grease • Oil (General, Cutting, Drawing Compounds, Fingerprints, Forming, Honey, Hydrocarbon, Lubricants, Self Emulsifying, Silicone /Greases, Sulfur/Chlorinated, Water-Soluble) • Rubber & Tire Marks • Tar & Pitch

*Material compatibility should always be confirmed via testing with specific substrates under specific cleaning conditions. **Minor discoloration may occur under certain conditions.

Use Recommendations

System	Immersion & Ultrasonic Tanks	Spray Wash (Batch or Continuous)
Dilution	5-20%, typically used at 10%	3-15%, typically used at 5%
Cleaning Temperature Range	120-170°F (49-77°C), typically used at 130-150°F (54-66°C) For copper alloys, do not exceed 135°F (57°F)	135-170°F (57-77°C), typically used at 150°F (66°C)
Cleaning Duration	5-30 minutes: typical parts are clean in 10 minutes	3-10 minutes: typical parts are cleaned in 7 minutes
Rinse Temperature	A heated rinse may improve overall performance. Some OEM process specifications may require a heated rinse.	A heated rinse may improve overall performance. Some OEM process specifications may require a heated rinse.
Rinse Water Quality	Recommended conductivity of final rinse water: • Precision Cleaning: ≤ 500 microsiemens • Gross Cleaning: > 500 microsiemens	Recommended conductivity of final rinse water: • Precision Cleaning: ≤ 500 microsiemens • Gross Cleaning: > 500 microsiemens

• To avoid spotting, it is best if the parts remain wet between processing stages.

Typical Chemical Characteristics

Physical Form	Liquid
Color	Blue-Green
Odor/Fragrance	Mild
Viscosity	Water-thin
Weight	9.11 lbs/gal (1.092 g/ml)
pH of Concentrate	13.2
pH of Working Solution	12.1
Flash Point	> 212°F (PMCC)
Foaming Tendency	Low
Calculated V.O.C	1.45% (15.83 g/L)
Freeze/Thaw	Reusable after thawing & remixing

Concentration Verification

Burlin Titration Kit (Prod. No. XTRKIT)	
Sample Size:	5 mL
Titrant:	1.0 N HCl Solution
Indicator:	Bromophenol Blue
Concentration %:	Drops Titrant x 0.66
Precision Titration	
Sample Size:	50 mL
Titrant:	.5 N HCl Solution
pH Endpoint:	pH 3.8
Concentration %:	mLs titrant X 0.8273



Packaging

SHIPPING: PACKING GROUP II

STORAGE: Store in well-ventilated areas at temperatures between 40-120°F (4-49°C). The recommended shelf life of this product is 18 months.

DISPOSAL: Biodegradable. Pretreat by skimming and/or filtering. Final sewerability is determined by the municipal sewer district covering the plant location.

AVAILABILITY:

- 5 Gal (19L)
- 55 Gal (208L)
- 275 Gal Tote (1,041L)
- Bulk - up to 5,000 Gal (~19,000L)

Companion Products

Burlin Copper Protector (Product No. 431009)
Ultra-Concentrated Corrosion Inhibitor

RP 800 (Product No. 421001)
RTU Oil-Based Corrosion Inhibitor

RP 802 (Product No. 422001)
Dilutable Oil-Based Corrosion Inhibitor

PRODUCT NUMBER
301037



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