HEAVY DUTY DEGREASER

Concentrate

Heavy Duty Degreaser Concentrate is the latest advancement in oilfield cleaning technology. Heavy Duty Degreaser Concentrate replaces hazardous cleaning chemicals such as mineral spirits, harsh caustics and alkaline detergents.

Highly Concentrated aqueous solution offers a non-hazardous alternative for a range of oilfield applications: rig wash, frac tank cleaning, spill cleanup, pump shop maintenance, refinery cleaning, offshore platform, drilling rig, work-over rig, and wellhead washing.

WATER WORKS

XTREME

RIG WASH • OIL FIELD CLEANER/DEGREASER

XTREME is the latest advancement in oilfield cleaning technology.

XTREME is non-flammable and non-hazardous for the TECHNICIAN and the ENVIRONMENT.

XTREME is non-corrosive and removes tenacious soils such as crude oil, drilling mud, scale, and mudline. XTREME has been designed for use in rig wash, maintenance, parts washing, oilfield cleaning, and general cleaning applications.

WATER WORKS

MAX XT

HIGH PERFORMANCE CLEANER/DEGREASER

Max XT is the latest advancement in refinery cleaning technology.

Max XT effectively cleans coker charge, asphalt tar, paraffin, drag reduction agent, crude oil & tenacious soils, drastically reducing your cleaning and turnaround time.

WATER WORKS

SOLUTIONS ARE

BIODEGRADABLE NON-COMBUSTIBLE NON-FLAMMABLE NON-TOXIC NON-CORROSIVE

MAX XT

HIGH PERFORMANCE SOLUTIONS ARE

BIODEGRADABLE NON-COMBUSTIBLE NON-FLAMMABLE NON-TOXIC NON-CORROSIVE
Industrial Cleaner & Degreaser

Value Proposition:

- Water Works cleaning technology **replaces hazardous solvents** and is much safer for operators.

- Water Works superior cleaning mechanism **effectively removes organic hydrocarbon** residue without adversely affecting surfaces or substrates.

- Water Works concentrated neat properties **enable cost effectiveness**.

- Water Works **reduces hazardous waste** streams.

- Water Works **complies** with strict VOC requirements.
Industrial Cleaning History

Micro Emulsion Surfactant Cleaners
Broad Material Compatibility
Safe for People and the Environment
Certs – NSF, Mil Spec, Aerospace, Green Seal
Very Effective In Multiple Applications, Proven
Keteca Water Works Industry Leader
Modern Mfg, ISO Certified, Semi History

70’s-80’s
Toxic
Caustic Cleaners

80’s-90’s
Butyl, Alkaline Based Cleaners

90’s

2000
H2O, Microbial, Colloidal Cleaners

2008-2014
Water Works IS UNIQUE

- Water Works products are bio-degradable, water soluble, non-flammable, non-combustible, non-caustic, non-corrosive, non-fuming, and non-toxic!

- Water Works proprietary unique multi-micro emulsifying surfactant technology allows the blending of surfactants that would otherwise be incompatible with each other, opening an array of effective multi-surfactant solutions not formerly available in water based technologies.
Mechanism of Operation

- With organic material removal, the polarizable groups of non-ionic surfactant molecules are attracted to particles, attach, and remove small portions, effectively dissolving the material into the aqueous environment to be washed away.

- Water Works’ unique multi-micro emulsified surfactant blend quickly dissolves organic hydro carbons without damaging the substrate.
## Third Party Certifications

<table>
<thead>
<tr>
<th>Certification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Seal GS-34: ASTM G-122, Mil-PRF87937C Test Methods, and Mil-C-29602 spec Standard Test Methods for Evaluating the Effectiveness of Cleaning Agents, cleaning compounds, and for use in Parts Washers and Spray Cabinets.</td>
<td>Environmental standard for cleaning and degreasing agents. The standard includes product performance requirements and environmental and health requirements such as reduced human and aquatic toxicity, reduced smog production potential, and low ozone depleting potential. This product meets the Green Seal™ Standard for Cleaning and Degreasing Agents, GS-34, based on its reduced hazard to humans, reduced aquatic impacts, reduced smog production, and low ozone depletion potential.</td>
</tr>
<tr>
<td>South Coast Air Quality Management District Clean Air Solvent Certificate</td>
<td>1. VOC concentration is no more than 25 grams of VOC per liter of material, as applied; 2. Composite vapor pressure is no more than 5 mm Hg of VOC at 20°C (68°F); 3. Reactivity is not higher than toluene; and, 4. Contains no compounds classified as Hazardous Air Pollutants (HAPs) by the federal Clean Air Act, Ozone-Depleting Compounds (ODCs), or Global Warming Compounds (GWCs).</td>
</tr>
<tr>
<td>NSF (Nonfoods program compounds listed category C1 registration #141453)</td>
<td>Category Code C1 – C Compound for use on all surfaces in inedible product areas, non-processing areas, and/or exterior areas.</td>
</tr>
<tr>
<td>Test Method/Spec</td>
<td>Description</td>
</tr>
<tr>
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<tr>
<td>Boeing D6-17487 Rev. P</td>
<td>Exterior and General Cleaners and Liquid Waxes, Polishes and Polishing Compounds Sandwich Corrosion Test</td>
</tr>
<tr>
<td>AMS 156C</td>
<td>Cleaner for Exterior Surfaces Water-Miscible, Pressure-Spraying Type. Sandwich Corrosion Total Immersion Corrosion tests.</td>
</tr>
<tr>
<td>ARP 1755B</td>
<td>This SAE Aerospace Recommended Practice (ARP) covers the determination of the amount of stock loss caused by use of chemical cleaning agents on aircraft turbine engine materials.</td>
</tr>
<tr>
<td>Nuclear Power Parts Cleaning Compatibility Test</td>
<td>Degreaser composition limits</td>
</tr>
<tr>
<td>ASTM F 483</td>
<td>Standard Test Method for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals at full strength and 2:1 dilution</td>
</tr>
<tr>
<td>ASTM F 519</td>
<td>Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments</td>
</tr>
<tr>
<td>ASTM D 816 Method B, Type 1 and ASTM F 945, Method A using AMS 4916.</td>
<td>Pratt &amp; Whitney spec for PWA 36604 Rev. D Compatibility with PWA 407 Rubber, stress corrosion and hot corrosion, and non-metallic materials</td>
</tr>
<tr>
<td>Honeywell (Allied Signal) EMS 53170,</td>
<td>Elchi Rate Test Method, Sandwich Corrosion Test Method (In accordance with ASTM F 1110), Intergranular Attack Test Method, Hydrogen Embrittlement Test Method (In accordance with ASTM F519), Stress Corrosion and Hydrogen Pickup Test Method (In accordance with ASTM F 945).</td>
</tr>
</tbody>
</table>
Deliverable Benefits:

- Improved Processes For Industrial Cleaning Applications
- Significantly Reduced Hazards To People And The Environment
- Lower Cost Of Ownership And Sustainable Practices Into The Future