


BIODESCALER

environmentally-friendly cleaning solutions



BIODESCALER

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Company Profile

Biodescaler FZE is the exclusive importer and Biodescaler LLC is the exclusive agent and distributor for the products under the Dynamic Descaler name (of Precision Dynamics, Texas, USA), for the UAE.

Biodescaler FZE is also the exclusive distributor for Dynamic Descaler products for Qatar, Kuwait, Oman and Bahrain in the GCC countries; and also for Azerbaijan, Khazakstan, Kirgistan, Turkmenistan, Lebanon, Syria and Yemen.



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Dynamic Descaler Original

Dynamic Descaler Original is a highly effective, environmentally friendly, biodegradable, safe, non-toxic, non-hazardous chemical treatment for the removal of mineral scale and other calcareous growth, marine deposits, dirt, rust and other contaminants from all types of water cooled, water heated and water exposed equipment.

Dynamic Descaler is a specially formulated liquid descaler using superior corrosion inhibitors and, in use as directed, does not corrode, pit, erode or damage in any way materials and metals such as; iron, steel, glass, brass, copper, plastic, enamel, fibre or Teflon or other materials found in water based systems or equipment.

Before DD



After DD



Dynamic Descaler 518

Dynamic Descaler 518 is a highly effective, environmentally friendly, biodegradable, safe, non-toxic, non-hazardous chemical treatment for the removal of mineral scale and other calcareous growth, marine deposits, dirt, rust and other contaminants from all types of water cooled, water heated and water exposed equipment. Dynamic Descaler 518 is a liquid descaler specially formulated using superior corrosion inhibitors and in, use as directed, does not corrode, pit, erode or damage in any way materials and metals such as; chrome, stainless steel, zinc and aluminium.

Both Dynamic Descaler Original and Dynamic Descaler 518 are fortified with powerful low foaming, wetting and penetrating agents as well as safe degreasing solvents.

Product Benefits

Importantly, industrial downtime is minimised, as the products are fast acting and highly effective. Normal cleaning jobs can be done in a few hours; heavier build up of deposits may require multiple applications.

Use of Dynamic Descaler improves plant and equipment efficiency, reduces operational costs, increases the lifetime use of often expensive capital equipment and conserves energy resources.

Dynamic Descaler can be used not only to clean and descale dirty, poorly performing and inefficient plant, equipment and machinery, but can be used proactively in preventative maintenance regimes and schedules.

Unparalleled Environmental Credentials



The products are non-toxic, non-hazardous and biodegradable. The concentrated solution may be held safely in the open hand, without harmful effects.

Dynamic Descaler Original and Dynamic Descaler 518 are biodegradable and so are safe for our environment, unlike a number of alternatives such as highly acidic descalers and chemical descalers which not only can be highly damaging to plant and animal life, but often are less effective and more expensive.

Both products are self neutralising when used as directed, and the non-toxic, mildly acidic residues after use can be rinsed away with water.

In some cases, minimal addition of biodegradable, non-toxic, non-hazardous neutralising agents may be required to achieve pH neutrality. Both products are safe for use by maintenance staff when used as directed.

The products have a pleasant odour and do not emit any obnoxious, harmful or unpleasant vapours when used as directed.

Product Testing

The company has an admirable record of an extensive and rigorous testing regime, and conforms to the highest local and international rules and regulations. We also test on a regular basis.

ASTM International, originally known as the American Society for Testing and Materials (ASTM), was formed in 1898, and develops and maintains consensus standards that have made materials, products and services safer, better and more cost-effective worldwide. The standards developed at ASTM are the work of over 30,000 ASTM members. These technical experts represent producers, users, consumers, government and academia from over 120 countries.

Corrosion Testing - ASTM G31

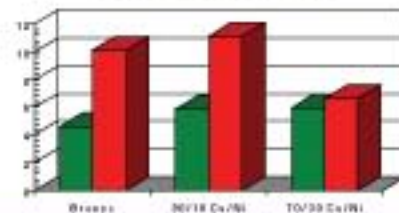
Using the same procedure as used by the US Navy, small plates of copper nickel (90/10 and 70/30) are used – most heat exchangers, condensers and evaporators use this type of material. The results of 3 tests are reproduced here, demonstrating the superior performance of Dynamic Descaler. The 3 tests show that, not only is Dynamic Descaler less corrosive, but Dynamic Descaler is also faster and more effective in removing / dissolving calcareous deposits.

Because Dynamic Descaler conforms to the same rigorous standards of safety, efficiency and effectiveness, all Dynamic Descaler products are approved for use with the US Navy. In addition, Dynamic Descaler is also an approved product with the UK's Royal Navy and many leading international companies.

(A full list is provided later in this document)

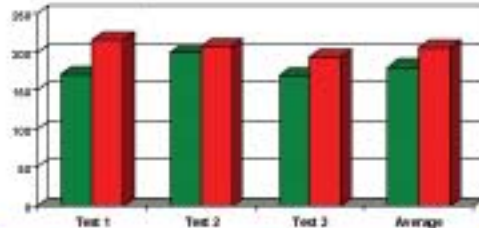
Test 1

Corrosion Testing to ASTM G31
DD >50% Less Corrosive



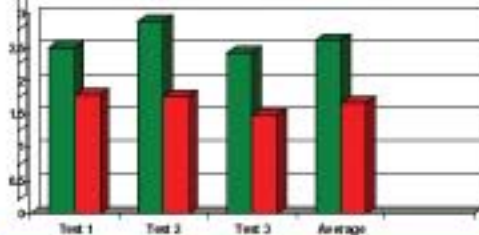
Test 2

Time Taken to Achieve Same Dissolving Results
DD up to 20% More Effective



Test 3

Scale Neutralising Ability
DD over 55% More Effective



■ Dynamic Descaler ■ Competitor

Before & After Use of Dynamic Descaler – Actual Comparison Photos



Product Uses and Applications

(Summary list only – Specific advice will be given for product use in many additional applications, equipment, plant and machinery)

Water Pipes	Radiators	Cooling Towers	Heat Exchangers	Compressors
Heaters	Filters	Rinse Tanks	Water Inlet Pipes	Dryers
Extruders	Kettles	Reactors	Scrubbers	Chillers
Condensers	Refrigeration Equipment	Pumps	Compressors	Fan Units
Sterilizers & Washers	Evaporators	Demisters	Turbines	Stills
Turbines	Reactors	Hydrogen Coolers	Transformers	Diesel Generators

Customer Approvals and Recommendations

- ExxonMobil
- Goodyear USA
- Goodyear Canada
- General Motors
- Shell
- Coca-Cola
- Saudi Aramco
- Rubbermaid
- Dow Chemical
- Petro Canada
- Ford Motors
- Dayton Tire & Rubber Company
- U. S. Army
- British Royal Navy
- United States Navy
- Atlas Copco
- Ingersoll Rand
- Compair
- 3M
- Nash Engineering Company
- Bombardier

