



GCW Biocool AT - 153

About GCW Bio Water

GCW Biowater is the most technologically advanced Plant Water based manufacturer in the world today using plant ions to manufacture Hexagonal Natural structure of water with Bio-Geometric and Magnetohydrodynamic principles. With patented technology, equipment and processes we are able to extract proven plant-based extracts and have modified the water ions to bond effectively enabling a new "Plant Water" technology. Founded in Bloomfield Hills, Michigan in 2019 with a mission of solving modern pain points in the manufacturing and industrial economic backbones where even the most toughest chemicals are limited in their ability we were inspired by Mother Nature's unique technology of conservation and recycling ability to invent a better mouse trap.

The Mission

To Harness the Raw Untapped power of Mother Nature's Plant Ions to Protect our World's Oceans, Water streams and the betterment of Human and Animal Life for a safe sustainable future.

Bio Coolant Additive Technology

A new cutting-edge bio coolant additive used as a blending solution with synthetic and emulsion cutting oils leads o significant innovation for the coolant industry.





A High-Performance Water-Soluble technology for Machining and grinding operation of ferrous and non-ferrous metals, the Bio-Cool – AT series is 100% Natural additive designed for metalworking Process. Our BioCool liquid is applied during the metal cutting process in an effort to minimise the Thermal expansion and Thermal Stress by Reducing the friction between Chip, Tool and Workpiece. BioCool – AT can also be used as a Rust Prevention for specific period, Anti Corrosive liquid and even as a chip flushing liquid in the machine metal-cutting process.

Biocool AT - 153 Features

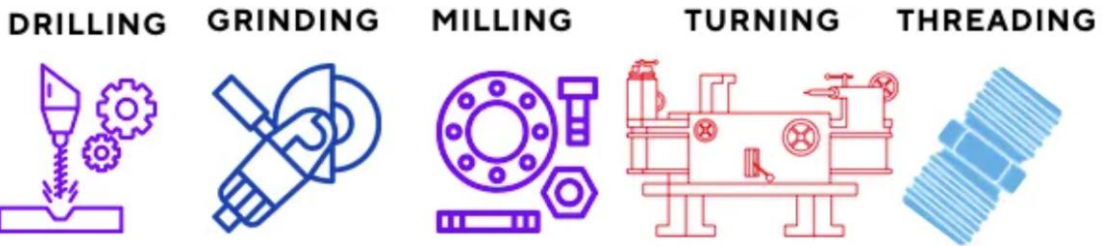
1. 100% Bio-Degradable- Significantly reduces load on Waste Treatment.
2. Non-Flammable and Non-Toxic: No Health Hazards, Physical Hazards and Environmental Hazards
3. Highly Stable emulsion: Performs well under extreme conditions.
4. No Foul odor: Reduces the occurrence of Odor that is common when the tool is idle for a few days and requires minimal clean up.
5. Designed for Multi-Metal use: Stable fluid enables use on multiple metals.
6. Operator Health and Skin friendly: Does not cause skin irritation to Operators and no dangerous VoC's means no Respiratory Hazards.
7. Forms stable emulsion up to 200 ppm of hardness of the water.
8. Superior rust & corrosion protection.
9. Longer sump life: Enables the use of your existing sump mixture for longer periods of time between recharges.
10. Increase in Tool life: With a higher Coolant surface interaction extension helps your existing coolant perform 100% leading to increased tool life.

Properties	Bio Cool AT 153
Specific Gravity @30 C	<1
pH Value	12.7 - 13.2
Nature of Emulsion	Nano Emulsion
Emulsion @ 10-Fold Dilution	0.44
Refractometer Factor	= 0
Flash Point	Non-Flammable
KV@40 C, cSt (D-7042)	1.5
Corrosion Test	Non-Corrosive

Benefits

-  Reduced Top-up
-  Increased Sustainability
-  High Precision
-  Higher Tolerances

Ideal for



Application

Metaling Application	BioCool AT 153	
	Enhanced Superior Stability & Bacterial Protection, Extended Sump Life & Tool Life	Helps Difficult Machining Operations & Hard to Cut Corners, Superior Coolant for Extreme cutting Environment
Cast Iron	● ●	● ●
Carbon & Tool Steel	● ● ●	● ● ●
Stainless Steel	● ● ●	● ● ●
Titanium & Nickel	● ● ●	● ● ●
Aluminum	● ● ●	● ● ●
Brass, Bronze & Copper	● ● ●	● ● ●

● ● ● : Excellent

● ● : Good

GCW Biocool AT – 153 vs COOLANT

SI No.	BIO COOL AT 153	COOLANT
1	Degreases Easily	Non-Degreaser
2	Machine Cleaning will be easy at the time of change over	Required More cleaning of Coolant Tank
3	Tool life Increase to 40 – 60 %	Less Tool Life
4	Its easily evaporates when there is spill over of BIO Water from Machine	Machine Area is very Oily when coolant spills over from Machine
5	No Foaming Issues	Causes Foaming issues
6	No Fungus or Smell or Bacteria formation in the machine	Causes Smelling, fungus and bacteria in machine
7	Easily BIO Degradable.	Need to use PH unit for Coolant Neutralization
8	50% reduction in Load for ETP	No Reduction in ETP load.
9	No itching effect on Skin or eyes when contact with Bio Water with Operator	Causes Itching Effect with Coolant when contact with Operator
10	Cost effective Solution	More Cost
11	Rust prevention	No rust prevention