

WHAT ARE COLLOIDAL MICELLES CLEANERS?

A colloid is a very small particle that is suspended in another medium and is a term given to a state of matter.

Micelles are relatively small, spherical structures composed of anywhere from a few dozen to a few thousand molecules that attract one another to reduce surface tension.

Colloidal micelles cleaners are a mixture of tiny particles of one substance dispersed and suspended in another substance. These particles are extremely small, highly active, and may remain in suspension indefinitely, unaffected by gravity.

A practical example of a colloidal mixture is fog. If you look closely at fog you can see small droplets of water floating and constantly moving around in the air. This constant movement is one of the reasons colloidal cleaners work so well.

There are two requirements that must be met in order to make a stable colloidal micelles cleaning compound: First, the particle size must be extremely small. Second, the particles must be made to repel each other. ABM Solutions' formulations accomplish both criteria.

How Do Colloidal Cleaners Work?

If the attraction to the colloidal cleaner is greater than the electromagnetic forces holding the materials together that are to be removed; the weaker material is broken up into billions of individual particles and taken into solution by the colloidal cleaner. Because the material to be cleaned is now a part of the colloidal mixture, it will not under normal circumstances recombine or redeposit on the surface to be cleaned.

The power and versatility of bio-based colloidal cleaning compounds is amazing. ABM Solutions' bio-based colloidal cleaners have an extremely wide range of application without the undesirable side effects of harsh toxic chemical cleaners.

Important Application Factors

Because colloidal cleaners function on a molecule level and work differently than other cleaning compounds, the following are four important factors that should be considered in order to use colloidal cleaners effectively:

Solution Strength: Some cleaning operations require that the colloidal cleaner be applied undiluted prior to adding water in order for the solution to break the surface tension of the material to be removed.

Time: A colloidal cleaner needs time to fragment and take into solution the material to be removed.

Temperature: An increase or decrease in temperature dramatically effects a colloidal cleaners effectiveness.

Mechanical: Mechanical agitation of a colloidal cleaning solution while in contact with the material to be removed will normally increase its effectiveness.

ABM SOLUTIONS FORMULATIONS

ABM Solutions product formulations are a homogenous blends of bio-based ingredients that form super active colloidal cleaners.

ABM Solutions' cleaners are formulated from 100% bio-based ingredients and do not contain volatile organic compounds(V.O.C) , harmful acids, acetone, butyls, Isobutane, isoparaffinic hydrocarbons, halogenated hydrocarbon glycol ethers, hydrocarbons, ketones, methylene chloride, perchloroethylene, methyl ethyl ketone, or any other hazardous chemical or solvent compound.

100% VOC COMPLIANT PRODUCT

ABM Solutions' cleaners comply with OSHA 29 CFR - 1910.1200 Section (i) trade secrets, contains no hazardous components under OSHA or California Proposition 65 List. Under carcinogenicity: No ingredients are listed under IARC, ACGIH, NTP or OSHA as a carcinogen.

ABM Solutions' cleaners comply 100% with all VOC regulations and with Executive Orders 12873, 13101 and 13134 for Environmentally preferable purchasing requirements.