Technical Data Sheet

Product Code: 0003001 Revised Date: 5/01/2025

Cu/Scrub 4F-9.1

Product Description

Cu/SCRUB 4F-9.1 is an acidified pumice scrub designed to promote cleaning and micro-roughening of copper laminate. Cu/SCRUB 4F-9.1 is formulated with 4F Grade, friable pumice and contains antioxidant components to inhibit cupric oxide formation after the cleaning cycle. During use, fractured particles from friable pumice continue to present sharp cutting edges rather than rounding off, thereby assuring a long and consistent operating life. Cu/SCRUB 4F-9.1 also exhibits a low concentration of free silica and is therefore safer to work with than traditional pumice.

Performance Features

 Cu/SCRUB 4F-9.1 is mildly acidified, thereby chemically stripping light oxides from the copper surface while producing a uniform micro-roughened copper surface.

• Cu/SCRUB 4F-9.1 contains antioxidants to protect the cleaned copper.

• Cu/SCRUB 4F-9.1 is formulated with friable 4F Grade pumice, assuring a continued source of sharp edges as the material fractures during use.

Cu/SCRUB 4F-9.1 contains a low concentration of free silica, promoting a safe working environment.

Physical Specifications	
Physical State	Solid
Appearance	Gray-White Free Flowing Powder
Odor	None
Freeze/Thaw Stability	Stable
Specific Gravity	2.2 G/Cm ³
pH (1% Slurry)	< 5
Flash Point	Non-Flammable

Physical Specifications

Equipment Requirements

Cu/SCRUB 4F-9.1 is chemically compatible with all types of plastic, elastomers, quartz, titanium, Teflon, steel and stainless-steel alloys. Because Cu/SCRUB 4F-9.1 is an abrasive cleaner, the wear resistance of mechanical parts such as pumps, and manifold plumbing including spray nozzles, should be verified with the equipment manufacturer.

Product Make-Up

Cu/SCRUB 4F-9.1 may be used dry or mixed with water to form a slurry past of the desired consistency for application. For applications employing ISTM equipment, a slurry containing one pound of Cu/SCRUB 4F-9.1 per gallon is recommended.

Operating Parameters

Cu/SCRUB 4F-9.1 may be applied by hand brushing, mechanical brushing, or mechanized spray.

Control and Replenishment

Eventually, the particle size of the pumice will diminish, reducing it's effectiveness. Additionally, the antioxidant components will become depleted, and a noticeable increase in the tendency for copper oxidation may be observed. It is recommended users experiment to determine the optimum dump frequency of static baths.

Safety and Handling

Read and understand this product SDS before handling.



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Waste Treatment

Individual users should verify the nature of spent solutions to assure compliance with local, state, and federal regulations. Contact Seacole for specific details and/or further waste treatment recommendations.

Ordering Information

Cu/SCRUB 4F-9.1 is available in 22# pails and 325# drums.



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