

Super Seep Free

Super Seep Free is used as a soak dip after black oxide with to prevent seepage or bleeding out of absorbed salts when processing powdered metal parts or metal fabrications which may have crimped joints, blind holes, etc.

Super Seep Free is an oil-type liquid, which is used as received and heated to 230°F to 320°F.

Features & Benefits

High flashpoint	Allows heating to effectively neutralize residual black oxide salts
Alkaline resistance	Residual salts can be decanted from process tank to extend bath life

Physical Data

Specific gravity	0.86 – 0.87
Percentage of volatility by volume	Negligible
Vapor density (air =1)	> 5
Evaporation rate (N-butyl acetate =1) (Ethyl ether)	< 0.01 1000x slower
Solubility in water	Not soluble
Appearance and odor	Dark amber liquid; slight odor
Flash Point	> 400°F

Operating Conditions

Super Seep Free should be heated with either steam or with electric heaters and should be equipped with an automatic temperature controller. Do not use electric immersion heaters that are horizontally mounted on the tank bottom. D-Rate heaters should be employed. Steam coils should be vertically mounted on tank wall. Mechanical agitation is recommended. The use of gentle mechanical agitation facilitates the controlled release of water evacuated from the work. It also ensures that the process tank is of uniform temperature. Filtration to remove particulate contamination is also recommended.

The tank for the Super Seep Free solution can be fabricated from either plain low carbon steel plate, or stainless steel.



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After a black oxide treatment and a thorough rinse in hot water (greater than 180°F), the parts are immersed in the Super Seep Free solution for a period of 15 to 30 minutes or until there is no reaction at the metal surface. The parts are then removed and allowed to cool. They are then immersed in Hubbard-Hall's Metal Guard 410, water displacing rust preventive.

The Super Seep Free solution will gradually build up with salt solution from the blackening bath. The salts will settle to the bottom of the tank and must be periodically removed. Fresh Super Seep Free solution should be periodically added to replace drag-out and maintain the solution level. When the Super Seep Free solution becomes too contaminated, it must be discarded and replaced. Filtration will greatly extend solution life.

Waste Disposal

Do not dump Super Seep Free solution down the drain. Discard in accordance with local regulations for petroleum-based products.

Caution

DO NOT USE GAS HEAT - FLASH POINT 410°F.

DO NOT MIX SUPER SEEP FREE WITH ANY OTHER CHEMICALS OR SOLUTIONS.

Contains paraffinic distillate. Keep away from heat, sparks and open flame. Use only with adequate ventilation. Avoid contact with skin and eyes. For skin contact, wash with soap and water. If swallowed, give liquids and induce vomiting. Call a physician. Do not give liquids or induce vomiting if victim is unconscious. Small amounts which may accidentally enter the mouth should be rinsed out until no taste of this product remains. Clean up spills with an oil absorbent. Extinguishing media: water fog, chemical foam, dry chemical or CO₂.

The accumulation of water on the bottom of the process tank can lead to boil overs. Mechanical agitation is required for baths operating at greater than 240°F.



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Our people. Your problem solvers.

For more information on this process please call us at

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