



Drilling Fluids, Inc.

Lost Circulation Material

Description

SAWDUST

SAWDUST is made of wood shavings from machining wood. Particle sizes in the SAWDUST package are distributed from very fine to coarse.

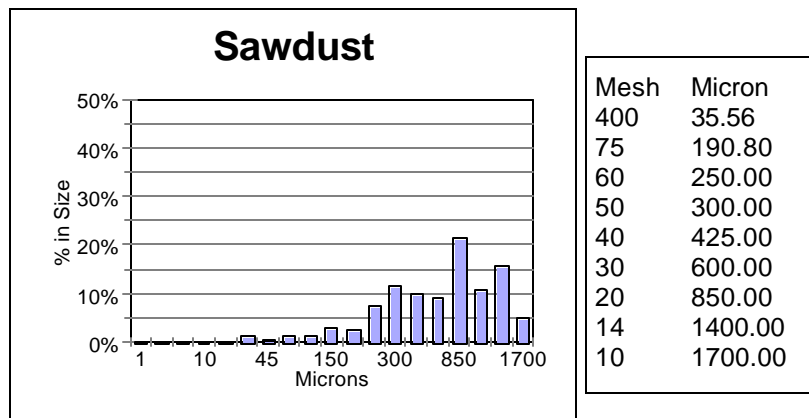
Uses

SAWDUST is used as a lost circulation material and as an absorbent for cleaning up spills in both water and oil based mud. Sawdust is often used as a lost circulation preventative. SAWDUST is a very absorbent material, so its use in oil base mud may be uneconomical.

Benefits

SAWDUST is a low cost non-reactive lost circulation material. SAWDUST is composed of various particle sizes which are useful in plugging a wide range of pore and fracture sizes.

Particle Size Analysis



The data indicates a percent by weight and minimum particle size in microns for each sub-division.



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SAWDUST (Continued)

Treatment

Mix SAWDUST through the hopper as needed to prevent or stop lost circulation. When treating lost circulation with only sawdust, 15 sacks per hundred barrels can be used. SAWDUST can also be used in conjunction with other lost circulation materials such as: PRIMA SEAL, ULTRA SEAL, and MAGMA FIBER.

Function

SAWDUST fills in cracks and pores in the formation retarding the flow of fluid into the formation. SAWDUST acts as a media to fill in fractures and prop the fracture open. Propping the fracture open will strengthen the well bore and reduce the likelihood of another fracture forming in the same location. The ability of wood to deform under pressure allows sawdust to successfully plug a wide range of pore and fracture sizes.

Typical Physical Properties

Appearance.....Wood shavings, light brown color
Specific Gravity0.45 - 0.65

Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet (MSDS) for this product prior to use.

Packaging

SAWDUST is typically packaged in 3 cubic foot bags but may also be packaged in 6 cubic foot bags.