

Product Evaluation

RE: Brooks 32 GT

PRODUCT INFORMATION

Product Name: Brooks 32 GT
Website: <https://nscminerals.ca>

Manufacturer: NSC Minerals Ltd., Saskatoon
Supplier: NSC Minerals Ltd., Saskatoon

VENDOR CLAIMS AND INFORMATION

CLAIMS

Brooks 32 is a natural brine brought to the surface from its underground formation 6,000 feet below the Southern Alberta Prairies. Liquid Calcium Chloride has long been recognized as a superior product for dust control. Studies have shown that liquid calcium chloride causes less corrosion than other chlorides. Ensuring minimal dust on unpaved roads as well as maintaining a strong road base is essential in reducing summer maintenance costs. Reducing gravel loss from dust reduces the amount of additional gravel required to maintain unpaved roads. The superior organic additive used in Brooks 32 GT not only provides a range of additional dust control and road stabilization, but it also provides corrosion inhibition. Brooks 32 GT for the treatment of sand for prevention of freezing will also maintain easier flowability for winter loading. With an effective melting temperature of -40°C, sand that is pretreated with it quickly melts snow and ice for faster road clearing.

DESCRIPTION

BROOKS 32 GT is a combination of multi-chloride liquid brine Brooks 32 and a proprietary, organic corn-based additive that provides both a dust control and road stabilization performance boost, while also providing enhanced corrosion inhibition. The resulting blend is a homogenous liquid blend with little to no separation which is easy to apply and store. The organic additive used is also scent-free and colorless. This results in a much cleaner treated road when compared to other organics such as molasses and beet juice-based products and additives.

POTENTIAL USAGE

Brooks 32 GT can be used in the Dust Control and Soil Stabilization. It can also be used in pretreating sand for winter deicing operations for faster melting of snow and ice.

STANDARDS

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has some experience with the use of Liquid Calcium Chloride (brine).

APPLICABLE STANDARDS

Specification 52.6 Calcium Chloride Treated Sand
Specification 53.31 Supply and Apply Dust Abatement

RECOMMENDATIONS

Brooks 32 GT be listed as a Trial Product under Alberta Transportation Products List, Dust Abatement – Proprietary and Brooks 32 GT be listed as a Potential Product under De-icing Chemicals - Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

TRIAL PROJECTS

Woodlands County: June 9, 2024 - Range Road 62 from Grizzly Trail to Township Road 622 (NW of Fort Assiniboine)

Woodlands County: June 9, 2024 - Township Road 622 from Range Road 62 to Highway 661 (NW of Fort Assiniboine)

Clearwater County: June 13, 2024 - 1100m stretch on range road 9-0 from Highway 11 to their landfill

Clearwater County: June 13, 2024 - 350m stretch West of 400072 Range Road 7-3

MD of Taber: June 11, 2024 - 550m stretch from Range Road 171 West towards MD of Taber

O&M Building, west of Taber

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