

*The Original*<sup>™</sup>  
**ANTI-SLIP**<sup>®</sup>

ESTABLISHED 1986

*for*  
**Instant Traction on Ice**<sup>™</sup>

CRUSHED  
LAPILLO  
FOR TRACTION  
ON ICE



GRAINS DE  
LAVE BROYÉS  
POUR TRACTION  
SUR GLACE

**16 Kg**



**ANTI-SLIP**<sup>®</sup> Protection on Ice<sup>™</sup>



Use ANTI-SLIP<sup>®</sup> on sidewalks and driveways to prevent slipping and sliding. Virtually no track-in.



Use bags of ANTI-SLIP<sup>®</sup> in your vehicle for weight and emergency use on icy roads.

***An Environmentally Safe Product***<sup>™</sup>

MADE IN CANADA

*From a natural British Columbia Resource*<sup>™</sup>

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# Anti-Slip™

## Ecologically Friendly Icy Surface Traction Product

### ORIGINS

More than 7,000 years ago, volcanic activity in the beautiful Nazko Valley, British Columbia erupted and formed the Nazko cones. The youngest and most easterly eruptive centre in the Anahim belt produced a deep carpet of black pumice (lapillo), a natural lightweight aggregate.

Canada Pumice Corporation markets its black pumice under two different trademarks - Anti-Slip and Tephagro. In-depth testing for soil suitability has been performed on this product both by private labs and the Ministry of Agriculture and Agri-Food Canada.

### COMPOSITION

Anti-slip is a 100% natural, environmentally friendly and inert product.

From a chemical perspective, Anti-slip has a pH of 7 and trace minerals in small amounts. This pH level is within the federal Canadian Environmental Quality Guidelines of between 6 and 8. The levels of the available trace minerals contained in Anti-slip are well below the federal guidelines for soils and/or water. The product has no negative chemical impact on the environment.

From a physical aspect, once incorporated in the soil, due to its high porosity (approx. 58%), it will help provide good water drainage for the soil. Anti-slip has very small pointed edges that make the material become partially embedded into the ice, therefore providing the traction needed under footing or tires. Due to its black colour, Anti-slip absorbs heat from the sun and has some ice melting capability.

### USES and APPLICATION

Anti-Slip™ is used as a winter road abrasive. It is used on rural and urban roads. Highway applicators use regular sand trucks to apply Anti-Slip. Sidewalk and parking lot applicators use hand or push type broadcasters. Anti-Slip is sold to timber mills for secondary roads, no salt is added and they feed on these piles the whole season. Highway maintenance groups mix it with 4% salt. It is an all weather material, plus C. and minus C. Spring cleanup is similar to sand. Some particulate matter can be present in the spring. If left on dry pavement, and crushed by repeated vehicle traffic, Anti-Slip will breakdown somewhat. It is inert and environmentally friendly. If salt is not blended in with it, it can be used as a top dressing or soil additive after road sweeping in the spring.

- Using a ¼ L container: covers approx. 3200 ft<sup>2</sup>
- Using a push spreader (Prize Lawn CBR II):
  - 2" x ¾" opening covers approx. 4000 ft<sup>2</sup>
  - 2" x 1" opening covers approx. 3200 ft<sup>2</sup>

#### Technical information

PH 6.2

Available Sodium 1 ppm

E.C. Salts 0.2 mmhos/cm

Organic Matter 0%

Total Nitrogen <0.01%

Available Phosphorus 11 ppm

Available Potassium 15 ppm

Available Calcium 75 ppm

Available Magnesium 14 ppm

Available Copper 1.1 ppm

Available Zinc 0.5 ppm

Available Iron 240 ppm

Available Manganese 5 ppm

Total Porosity 58.5%

Water Space 16.4%

Air Filled Porosity 42.0%

# Anti-Slip™

VS

## Salt, Salt Blends, Calcium Chloride and Sand for De-Icing

### EFFICACY

Anti-Slip	100% Individual particles act as heat sinks with sunlight Always effective anti-slip agent, as particles will not round out
Salt	Only useable in selective temperature ranges Effective only to 5°F (-15°C) Single use only as product will dilute and become ineffective
Salt Blends	Effective only to 10° F (-12°C) Single use only, due to dilution
Calcium Chloride	Effective only to 10°F (-12°C) Single use only due to dilution
Sand	Most suppliers only use waste product or pit run sand that contains a high percentage of silts and clays. This will affect product performance as it will become sticky, ball and actually reduce skid resistance.

### USE RATE

Anti-Slip	100% effective residency time
Salt	Single use only, must re-apply each time Hard on application equipment Requires special handling equipment Need gloves
Salt Blends	Single use only, must re-apply each time Hard on application equipment Requires special handling equipment Need Gloves
Calcium Chloride	Single use only, must re-apply each time Hard on application equipment Requires special handling equipment Need gloves
Sand	Will degrade as a lay down product as it rounds out User must look at the actual sieves for the products due to the variation of the bottom percentages of the "banana" curves wherein there will be a high percentage of silt and clay. This results in a reduced percentage of actual skid materials per tonne of product laid down.

### TRACKING

Anti-Slip	Low ballistic values will stay in water due to surface tension Sharp edges will stick to floor mats
Salt	Permeates all structure elements, mats, clothing, footwear
Salt Blends	Permeates all structure elements, mats, clothing, footwear
Calcium Chloride	Permeates all structure elements, mats, clothing, footwear
Sand	Will degrade due to high silt content Silt will bind to shoes and clothing

### ENVIRONMENTAL

Anti-Slip	Nil Negative effects Used as soil amendment and potting blend materials All natural products Will act as a natural filtration product and add to eco system enhancement Can be used as aquarium sands
Salt	Toxic Unknown and variable source chemistry Unknown heavy metal content May be listed as a banned product by government Corrosive to concrete, pavements, vehicles, structures, clothing, footwear Kills trees, plants, grass aquatic life
Salt Blends	Toxic Unknown and variable source chemistry Unknown heavy metal content May be listed as a banned product by government Corrosive to concrete, pavements, vehicles, structures, clothing, footwear Kills trees, plants, grass aquatic life
Calcium Chloride	Toxic Unknown and variable source chemistry Unknown heavy metal content May be listed as a banned product by government Corrosive to concrete, pavements, vehicles, structures, clothing, footwear Kills trees, plants, grass, aquatic life
Sand	Siliceous content Dust (air pollution) levels will increase as product breaks down Adds to turbidity problems from storm drain outfalls. Will affect aquatic life as the oxygen levels will alter in the variable environment