

JC PEACOCK & CO LTD – PRODUCT SPECIFICATION SHEET Page1/3

Viaform Platform Deicer

Composition: > 97 wt % Sodium Formate

Corrosion inhibitor: Approx. 1-3 wt%

Appearance: White irregular granulate

Particle (Granule) size: Typical 2-4 mm

Dust content (< 500 µm) Maximum 1 wt %

Odour: None

Specific gravity:900-950 kg/m³.Flash point:None flammableWater content:Less than 1 wt %

Particle Crushing Strength: Typical 2 kg/average particle size

Freezing point (25% Solution): -19 $^{\circ}$ C

Miscibility with water: 81 gram pr. 100 ml at 20 °C.

pH 15% w/w dest. water: Typical 10.5

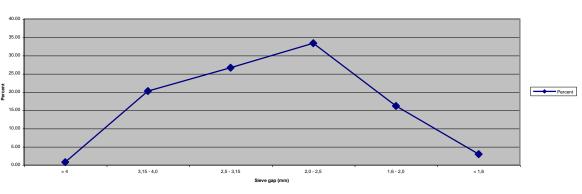
Typical sieve measurement results of Viaform S-Solid

Table: Sieve analysis numbers

| 1.1 Sieve Gap | Weight | Percent |
|---------------|--------|---------|
| millimetre | gram | % |
| > 4 | 1,71 | 0,74 |
| 3,15 - 4,0 | 46,75 | 20,21 |
| 2,5 - 3,15 | 61,59 | 26,62 |
| 2,0 - 2,5 | 77,16 | 33,35 |
| 1,6 - 2,0 | 37,34 | 16,14 |
| < 1,6 | 6,78 | 2,93 |
| | 231,33 | 100 |

Graph: Graphical presentation of the sieve analysis numbers.





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Technical Approvals

Material compatibility of VIAFORM S-Solid:

| Metals compatible with | Materials compatible with | Metals not compatible with |
|------------------------|-------------------------------|----------------------------|
| VIAFORM S-Solid | VIAFORM S-Solid | VIAFORM S-Solid |
| Stainless steel | Polyethylene plastic | Solder |
| Aluminum alloys | Polycarbonate plastic | Zinc |
| Magnesium alloys | Acrylic plastic | Galvanized steel |
| (dichromate treated) | | |
| Titanium | Polychlroprene | |
| Cadmium plated steel | Polytetrafluoroethane | |
| Copper | Vulcanised ethylene- | |
| | propylene | |
| Carbon steel | Painted surfaces | |
| | Bitumen | |
| | Glass | |
| | Reinforced polyester | |
| | fiberglass (high pH resistant | |
| | resin) | |
| | Silicone | |
| | Polymethacrylate | |
| | Concrete | |

Environment

General:

- Biodegradability tests have been performed for VIAFORM S-Solid as well as for the main component Sodium formate to document that the product is readily biodegradable in both soil and aqueous systems at room temperature as well as at low temperature
- VIAFORM S-Solid has lower oxygen demand (BOD₅) than urea, glycol and potassium acetate based de-icers, i.e. oxygen depletion of soil, surface waters and sewage treatment plants is strongly reduced compared to other de-icing agents
- Eco-toxicological tests have been performed for VIAFORM S-Solid as well as for the main component Sodium formate to document that the product in non-toxic to human, animals or aquatic organisms
- VIAFORM S-Solid is neither listed as a hazardous component nor does it exhibit any of the characteristics that would cause it to be classified as a hazardous component

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- VIAFORM S-Solid has been tested according to OECD test standard for classification and labelling of chemical product – it was found to be non irritating to skin
- VIAFORM S-Solid is not based on any nitrogen salts and will therefore not contribute to eutrophication of lakes and river
- VIAFORM S-Solid do not have the potential to bio accumulate due to the low octanol/water coefficient ($P_{ow} < 0$)

General Application Rates

Indicative application rates VIAFORM S-Solid

| | Frost < 1 mm: |
|---------------------|------------------------|
| Temperature | Dosage |
| From 0°C to - 5°C | 10-20 g/m ² |
| From -5°C to - 10°C | 20-30 g/m ² |

| | Snow / ice 1 to 3 mm: |
|---------------------|------------------------|
| Temperature | Dosage |
| From 0°C to - 5°C | 25-40 g/m ² |
| From -5°C to - 10°C | 40-50 g/m ² |

Note! The application rate depends on elements like weather conditions, surface materials and spraying conditions.

Storage and Handling

- VIAFORM S-Solid is available in 25 Kg bags, on pallets of 40 bags
- VIAFORM S-Solid will be delivered ready to use and must not be diluted prior to use due to the content of corrosion inhibitors
- VIAFORM S-Solid must be stored under dry conditions
- VIAFORM S-Solid can have a detrimental effect on galvanized steel

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