Summary Technical Data Sheet

Sodium Polynaphthalene Sulfonate

Product Name: Sodium Polynaphthalene Sulfonate
Synonyms: PNS

Cutamol NNO, Dispersing Agent NNO,

Sodium salt of polynaphthalene sulphonic acid

CAS Number: 36290-04-7

Formula: $(C_{10}H_7O_3SCH_2ONa)_n$

Grade: Technical

Molecular weight: 260.24 g/mol

Appearance: Light brown powder

Specific gravity: 0.6 (water=1)

pH: 7.0 – 9.0 (1% solution)

Solubility: soluble in cold or hot water

Product Specifications

Properties	Specifications
Solid Content	≥ 91 %
Sodium Sulfate (as Na_2SO_4)	≤ 10.00 %
Water insoluble substances	≤ 0.05 %
Calcium and Magnesium content	≤ 4000 ppm
pH value (1% solution)	7.0 – 9.0
Finesse	≤ 5 %
Moisture	≤ 9 %

Sodium Polynaphthalene Sulfonate (PNS) is an efficient dispersant, binder and plasticizer that is used in many applications: cleaners, paints, adhesives, paper, textiles, and concrete.

As a dispersing agent it finds application in multiple markets: adhesives, paints, coatings, pigment pastes, textile printing and dyeing, paper making, electroplating additives; pretreatment cleaners, post-treatment trivalent passivates, and water treatment.

In construction PNS plays a very important role as an admixture in concrete known as superplasticizer. PNS improves the workability and properties of concrete, cement, gypsum, and mortar mixes. The benefits of PNS superplasticizer include: water reduction in the concrete mix, improved rheology, mechanical, and flow properties of concrete. PNS increases concrete strength, promotes compaction, and provides optimum workability.

Storage and Handling: Keep containers tightly closed in a cool, dark, ventilated place.

Packaging: 55 lb**/**25 kg

Transport Regulations: Not regulated as dangerous goods (for reference only).

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.
Revised 2020/01/06

Aqua Bond Inc. · PO Box 63635, Toronto, ON M1V 5K2·Tel. 416·754·7211·www.aquabond.ca