

Product Technical Information Sheet

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TI-NatSurf® BW

IDENTIFICATION

Description: TI-NatSurf® BW is a unique synergistic mixture of plant based, and other naturally derived ingredients to create a versatile multi-functional surfactant complex.

CAS Reg. No.: Proprietary

Adopted INCI Name: [Patent Pending] Aqua(Water), Decyl glucoside, Sodium myristoyl sarcosinate, Cocamidopropyl hydroxysultaine, Sodium cocoyl amino acids (apple)

TYPICAL PROPERTIES (NOT A SPECIFICATION)

Appearance at 25 °C: Colourless liquid with a slight haze.

pH (10% solution): 6.0 to 7.0	Total Solids (%): 34.0
Colour (Gardner): <1	Viscosity at 25 °C (as is): 10,000 cPs
Total Active Material (%): 31.0	BCI (% renewable Carbon): 88

KEY FEATURES AND BENEFITS

- ✓ VOC & DEA free.
- ✓ Sulphate and Sulphonate free.
- ✓ Good hydrophobe compatibility.
- ✓ Biodegradable.
- ✓ Produces rich stable "lather type" foam.
- ✓ Material can be formulated via cold process.
- ✓ Extremely mild.

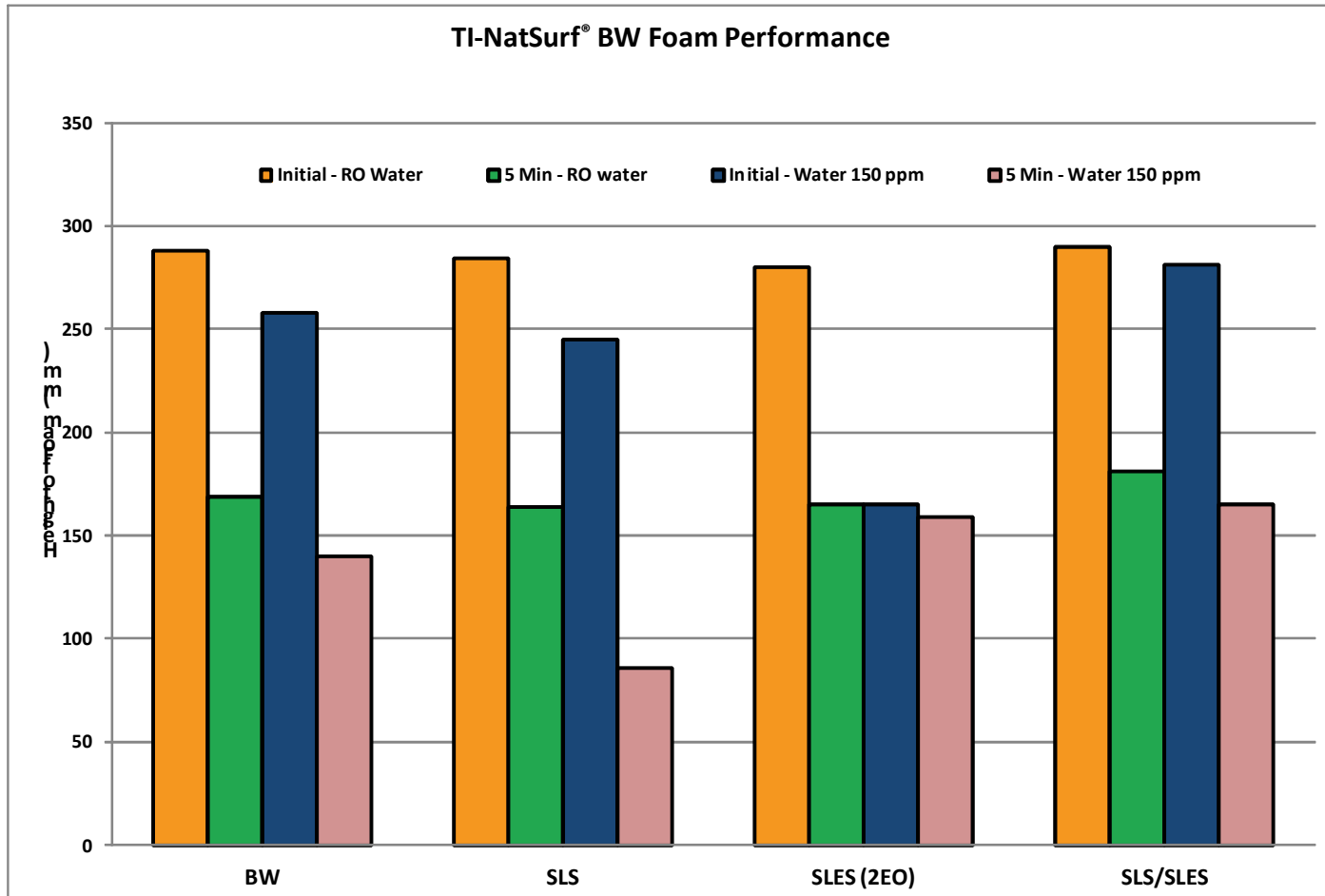
GENERAL USES AND APPLICATION AREAS

TI-NatSurf® BW is a unique naturally inspired proprietary system comprised of nonionic, anionic, amphoteric surfactants derived from plant based renewable resources, and other naturally derived ingredients. The materials used in TI-NatSurf® BW have been balanced in order to maximize each components performance characteristics, while maintaining reasonable economics. The novel use of synergistic ingredients in TI-NatSurf® BW provides a unique product with superior foam performance to traditional sulphate and ether sulphate based systems. The foam generated is an extremely stable matrix of small uniform bubbles, even in the presence of emollient esters and natural oils. The ingredients used in TI-NatSurf® BW contribute to the products' extreme mildness, and substantively to the skin. The product is non drying, and leaves a "soft after feel" on the skin.

TI-NatSurf® BW can be used "AS IS", with the addition of auxiliary ingredients to formulate premium body wash products, or the preferred level is 12 % to 16 % actives, to produce a range of high end bath products. TI-NatSurf® BW may be used as the primary or as the secondary surfactant in many bath preparations. It has excellent compatibility with traditional anionic systems, such as lauryl and laureth sulphates and a variety of sulphonates. It also has excellent compatibility with traditional anionic systems, such as lauryl and laureth sulphates and a variety of other sulphonates, making it an ideal choice for secondary surfactant replacement.

TI-NatSurf® BW can be readily dispersed in cold or warm water, and its viscosity adjusted by the use of nonionic surfactants, synthetic polymers, or a variety of natural gums. It will not respond significantly to the use of inorganic salts on its own, such as sodium or ammonium chloride.

PERFORMANCE



STORAGE, HANDLING, & PACKAGING

It is recommended that TI-NatSurf® BW be stored in sealed containers and kept at temperatures between 15°C and 40°C. Always avoid freezing or overheating. Should the material become frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use. TI-NatSurf® BW is stable through three(3) freeze-thaw cycles and at elevated temperature (42 °C) for six(6) weeks.

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling TI-NatSurf® BW. Contact with eyes and prolonged contact with skin should be avoided. Wash thoroughly after handling the material.

The TI-NatSurf® BW is Made-To-Order product available in 20 kg pails, 200 kg drums or 1,000 kg totes.

