

SARASPHERE GIANT

MULTIFUNCTIONAL VEGAN
BIO-BASED LECITHIN
COMPOUND WITH CREASE-
PREVENTING EFFECT FOR
CEL, PES, PA, EL AND FIBRE
PROTECTION FOR WO
BLENDS.

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MULTIFUNCTIONAL VEGAN BIO-BASED LECITHIN COMPOUND WITH CREASE-PREVENTING EFFECT FOR CEL, PES, PA, EL AND FIBRE PROTECTION FOR WO BLENDS.

PROPERTIES

SARASPHERE GIANT is an all-in-one product for dyeing PES with disperse dyes as well as 1:2 metal complex dyes on wool and PA. In addition to its excellent dispersing and washing properties, SARASPHERE GIANT also has a very good gliding effect and internal softening effect and therefore prevents the formation of creases or breaks in densely folded fabrics and articles that tend to crease.

APPLICATION TECHNIQUE

Due to its low foaming behaviour, the product is suitable for use on jets and overflow machines. Due to its fiber protection and softening effect, it is also used on yarn and loose stock.

APPLICATION FIELDS

WO:

The product has fiber protection for WO up to 106°C, as well as antisetting or reduction of the tendency to felt for WO. SARASPHERE GIANT reduces both fiber/fiber friction and thus leads to internal softening as well as fiber/metal friction. For 1:2 metal complex coloring it has a dispersing/equalizing effect. For acid dyeing, MEROPAN EF 150 is recommended for leveling. Depending on the conditions, the wool can be damaged during wet processing. As a result, the wool has reduced softness, shine and elasticity. The use of the SARASPHERE GIANT in dyeing baths serves to maintain the quality of the wool.

PA:

Very effective as a crease preventer on PA goods. As a multifunctional product, it can be used with 1:2 metal complex dyes. For acid dyes, MEROPAN EF150 (acid donor) should control the strike of the dye onto the fabric.

PES:

SARASPHERE GIANT is used in polyester dyeing for HT dyeing. Especially in jet dyeing, SARASPHERE GIANT delivers very good results due to its low-foaming property. It is used as a dispersing/leveling agent with a crease-preventing effect. SARASPHERE GIANT has excellent dispersing properties on dyes and oligomers, thereby achieving maximum fine distribution. The running properties of the goods are improved through the use of SARASPHERE GIANT. This often allows the machine to be loaded more heavily.

PES/ WO 106°-110°C:

The bio-based product optimally complements the Cool DYE concept with components such as lecithin. Cool DYE, the low temperature process for low dyeable PES fibers with BEMACRON HP-LTD, is also the innovative concept for carrier-free PES/WO processes at 106°C.

EL:

SARASPHERE GIANT emulsifies the remaining oils from EL mixtures and thus supports stain-free coloring.




Antifelting of WO at 98°C.

4% SARASPHERE GIANT at 120°C

Abrasion loss 16%. Compared to formaldehyde 13,5%

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Bio compound SARASPHERE GIANT	Biobased carbon 88 %	 USDA CERTIFIED BIOBASED PRODUCT
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Synergistic properties of a vegan compound

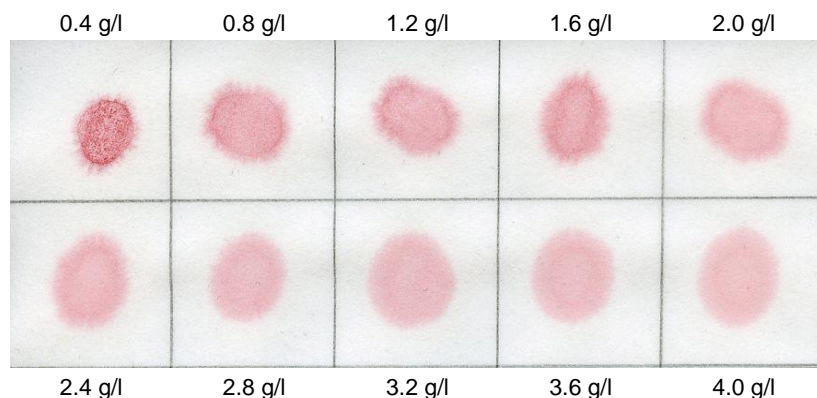
- ▶ Anticrease agent for PES, PA, WO dyeing
- ▶ Washing
- ▶ Dispersing
- ▶ Levelling/ migrating for PES
- ▶ Levelling agent for 1:2 metal complex dyes on WO and PA
- ▶ Fibre protection for wool

One bath washing/dyeing test

2 g oil are prepared with 0.10 g disperse turquoise dye. The goods are treated in the stenter frame for 10 min at 80 °C.

SARASPHERE GIANT has a good washing effect on oils during a dyeing of 130°C. Also the dyestuff dispersing is good under these conditions. The result of the dyeing is a brilliant shade.

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Dispersing test

A solution of Anthrasol Red IFBB is mixed with increasing amounts of the dispersant to be tested. The concentrations are adjusted so that the test solutions all contain 1.5 g/l of dye and a concentration series of the aid.

The dye is precipitated by oxidation with sodium nitrite / sulfuric acid (developer solution).

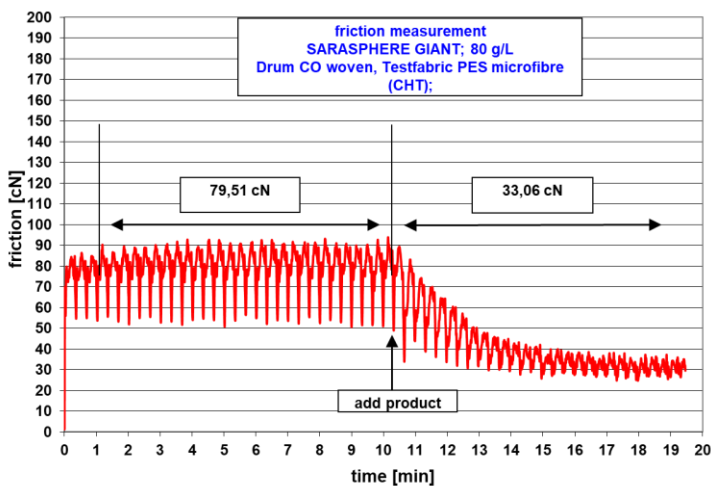
The solutions were spotted immediately after the dye was precipitated.

The fine distribution of the dye has an effect on the dispersibility

Oil dispersing test

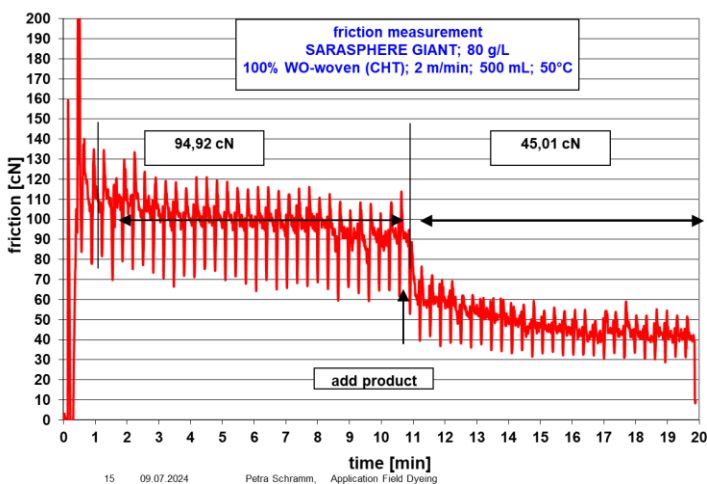


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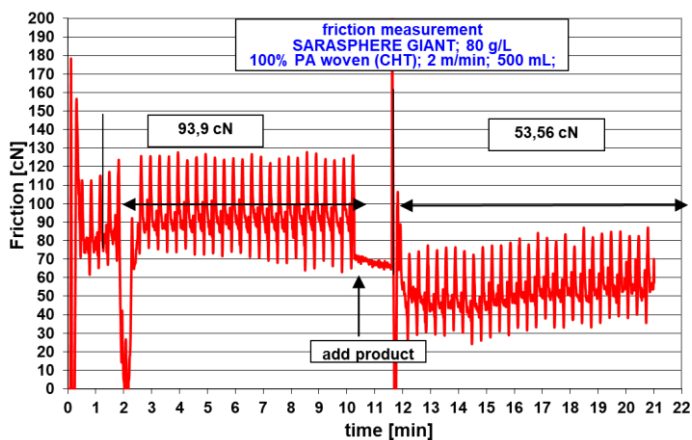


Friction decrease

PES 58%



WO 53%



PA 43%