

GG SUS



Special polymer fixative blends for dyeing process of indigo and sulfur bottoming and topping process

- GGSUS ensures that almost 100 % of the applied dyestuff remains on the yarn, versus the standard process, where 15 to 25 % of the dye is eliminated by washed-off
- Due to the reduction of the rinsing water flow and much less water contamination, makes a more ecological and sustainable process compared to the current technologies.
- Even without rinsing the dye, the washing fastness is much better than usual.
- Gives the possibility – even only with indigo – to obtain shades differentiating from more “reddish-clean” to more “greenish-greyish”
- All mentioned characteristics make the GGSUS in pure indigo, topping, bottoming, black-denim and color-denim a more sustainable process with good fastness, more ecological due to their advantages of water savings and a much more cleaner process.
- The generated effects are very unique, distinctive and contrasting/fashionable. the fastness is improved.



GG SUS is a high technology polymer developed to increase the fixation of sulfur and indigo dyestuffs on the cellulosic fiber in processes of bottoming and topping. As a result, more intense colors are obtained and higher contrast are observed in denim garment washing.

In bottoming process, GGSUS creates a protective layer around the molecule of the sulfur and indigo dyestuff preventing it from reducing again in the subsequent indigo dye liquor, thus eliminating problems of contamination of indigo boxes and shade variation from beginning to end of the yarn roll or rope

Increases sulfur and indigo dyestuff fastness.

Potentiates ring-dye effect on denim.

Greater contrast revealed in the garment laundry.

Water saving in the dyeing process due to the lower contamination of the boxes.

Process time optimization, reducing the spots for indigo dye boxes feeding in bottoming process.

PURE INDIGO Process Bottoming, reddish and clean shade, more ring dyeing, intensity and good wash fastness properties. Effects in garments such as sand-paper or mechanical effects are easy to be applied. Process Topping, slightly greenish shade, high intensity and good wash fastness, better wash-down results.

BOTTOMING GGSUS blocks the solubility of the sulfur dye during the indigo dyeing. Due to physical bonding and effects on the yarn, better ring effect is achieved (indigo is more superficial). More darker shades and not contamination. Not loss of the sulfur dye during the indigo dyeing.

TOPPING Practically 100 % of the dyestuff remains on the surface of the yarn, and is not eliminated during the rinsing process, more safe and differentiated than the traditional topping process. Excellent contrast in stone-washed garments.

BLACK-DENIM GGSUS provides a very dark shade and good fastness, without metallic aspect and neither bronzed appearance. Tendering effect practically disappears very low contamination of the waste water enables to work non stop.

COLOR-DENIM GGSUS is an easy way that gives very good uniformity of the dyes among different lots with a guaranty of a total dyestuff shade development.

- **Water Savings advantages**
- **Control of Indigo shade**
- **Less Waste Water Contamination, including water color**
- **Less energy and water consumption**
- **Provide Reduced Indigo and Sulfur Dye Usage & Cost Savings**
- **Less & Even Zero Dye Bleeding during Re-beaming, Sizing & Finishing Processes**
- **Provide an Ecological Overdyeing Process with / without a Steamer**
- **Reduce Fabric Back Staining**
- **Topping use less sulfur dyes, better fastness and clean weft in.**
- **Improve Dye Fastness properties & the ability to produce darker Dye shades**
- **Produce Special and better Ring Dyeing Effects**
- **Total elimination of bronzing effect**

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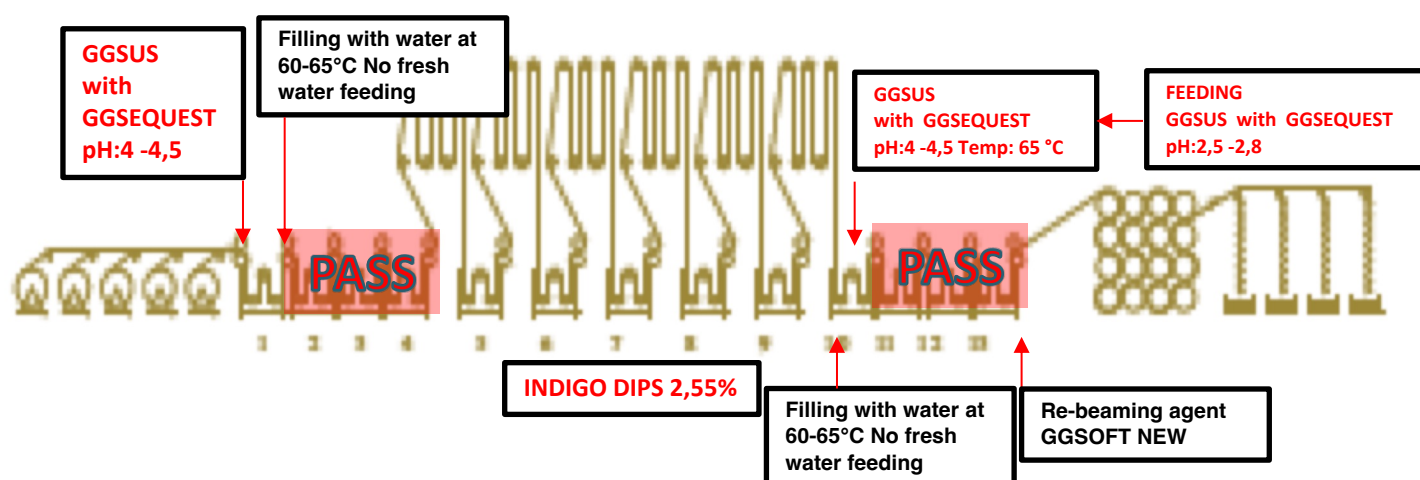
APPLICATION :

The usage quantities may vary as desired by the customer. In general it is recommended:

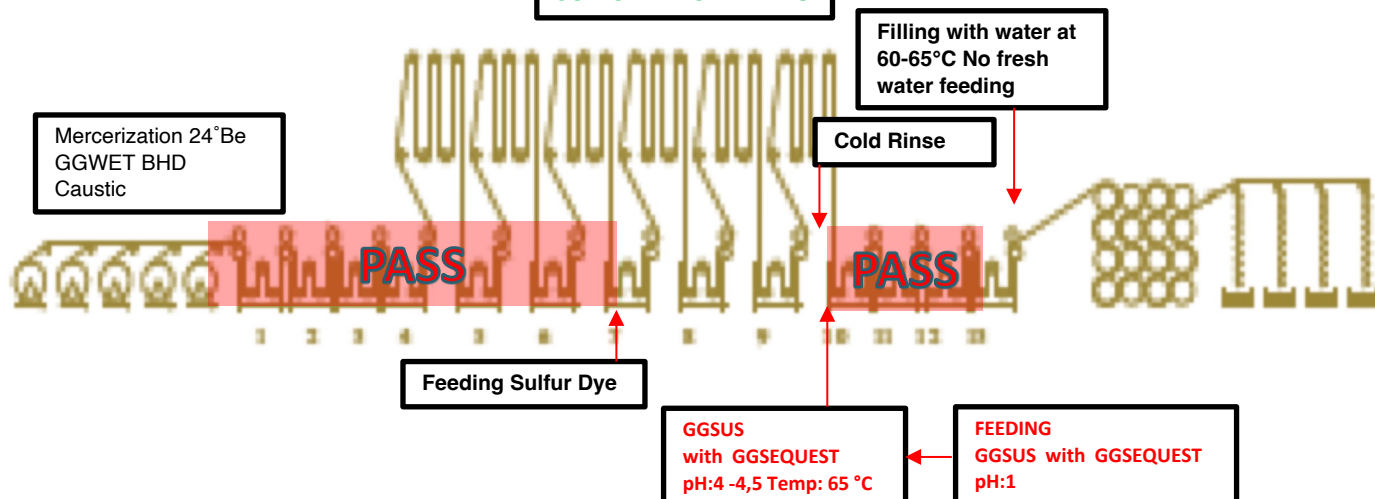
GG SUS	3 to 6%
pH	3,5 to 5,0 (adjust with acid during the process)

Note: Depending on the type of process, the addition of a non-ionic dispersant may be required in the fixation bath or in the back box. In general, 1-2 g/L of a GGSEQUEST type dispersant is recommended for such application.

INDIGO DYEING



SULFUR BLACK DYEING



Storage :

The product sensitive to frost and heat and must not be stored at temperature below 0°C or above 40°C . Irreparable damage is possible. In case of suspected frost or heat damage , the usability of the product has to be checked before processing.

Attention :

The above recommendations are based on comprehensive studies and experience made in practical finishing. They are, however, without liability regarding property rights of third parties and foreign laws. The user should test for himself whether the product and the application are suited for his very special purposes. We are, above all, not liable for fields and methods of application which have not been put down by us in writing. Advice for marking regulations and protective measures can be taken from the respective safety data sheet.

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