

GARMENT DYEING PRODUCT RANGE



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Jeanologia

REACTIVE DYESTUFF RANGE FOR
NEBULIZATION SYSTEMS.

ASUFIX MICRO

Thanks to ASUFIX MICRO and its revolutionary process, now we are able to dye by micronization systems without using a single gram of electrolyte, offering as a result wastewater which can be reused again.

The new dyeing process has been designed to dye through nanobubble technologies at room temperature as well as offering a significant water reduction.

With ASUFIX MICRO process, the usage of chemicals has been highly optimized due the role played by nanobubbles, which are in charge of transporting chemicals from solution to fiber. Therefore, garments receive the exact amount of water and chemicals they need.

AN ECO-FRIENDLY REACTIVE RANGE WITH GUARANTEED RESULTS

ASUFIX MICRO is the first reactive dyestuff range which offers deep color shades with same properties as conventional reactive dyeing such as excellent washing fastness, dyeing at room temperature and without electrolyte application in any stage of the process.

Thanks to the thorough development of ASUFIX MICRO application method is possible to obtain a completely penetrated reactive dyeing on garments with a significant reduction of water and optimized use of chemicals, even in the most hidden areas.

In addition, the new ECO-FRIENDLY dyeing process ensures zero intermediate steps such as drying or spinning the garments, enhancing the process transference into industrial scale.

ASUFIX MICRO PROCESS

Prepare the following solution at liquor ratio 1/2*

x% ASUFIX MICRO dyestuff
10gr/L PRODER FSE
1gr/l ASUGAL RSL

*Liquor ratio might be adjusted depending on kind of fabric.

•••• Micronize colour and auxiliaries' solution for 20' and maintain 20' more

Prepare 60gr/l Soda Ash solution at liquor ratio 1/1.

•••• Micronize for 20' and maintain for at least 20' after micronization

Rinse, neutralize and soaping



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For a Greennovative process try Oximagic on Asufix Del!

DISCHARGEABLE REACTIVE DYESTUFF RANGE

ASUFIX DEL

ASUFIX DEL can be dyed directly on cotton or on cationized fibres depending on the desired effect and properties. With one single range we can cover a big variety of fashion requirements. No matter if it is on woven or knitted fabrics, with ASUFIX DEL we can fulfil the strictest demands.

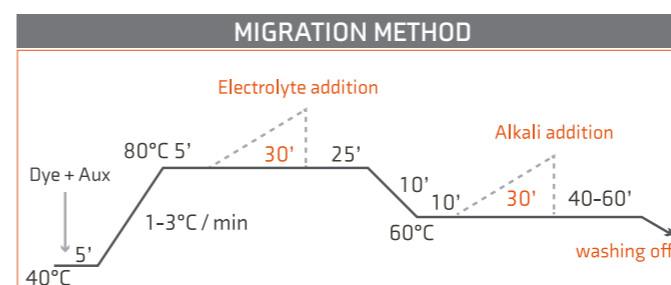
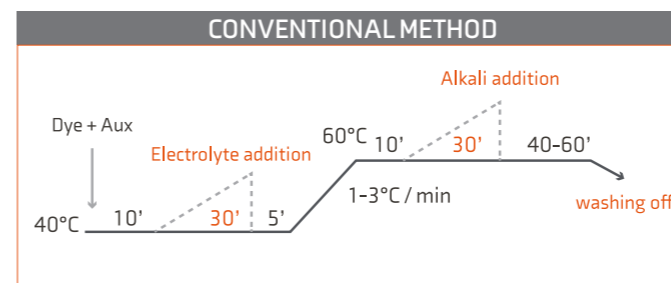


ASUFIX DEL can be applied as conventional reactive dyes using exhaust methods either in fabric or garment form, or continuous methods such as Pad-Batch. It can be achieved either a solid look with excellent fastness or a very heavy worn out effect if finished with acid wash processes such as ASUMAGIC. This is especially interesting on knitted goods where the worn-out effect is only achieved in most cases by means of this kind of techniques.



ASUFIX DEL can be applied on cationized fabrics to achieve a very superficial dyeing which is easily washed down with enzymes resulting into very nice contrast in seams and trimmings. In this case, we are combining a superficial dyeing together with Potassium permanganate sensitivity. This fact allows us to embrace a weary effect, as a result of contrast between washed down and discharged parts. With ASUFIX DEL we can create coloured Denim with the same properties as jeans. ASUFIX DEL range is sensitive to Ozone treatments. ASUFIX DEL range is sensitive to Ozone treatments.

DYEING PROCESS FOR MAXIMUM WASH FASTNESS

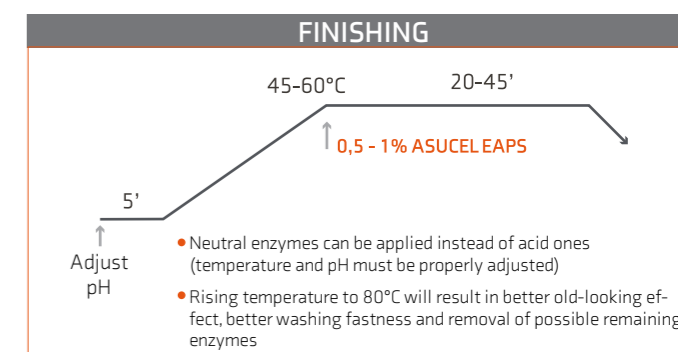
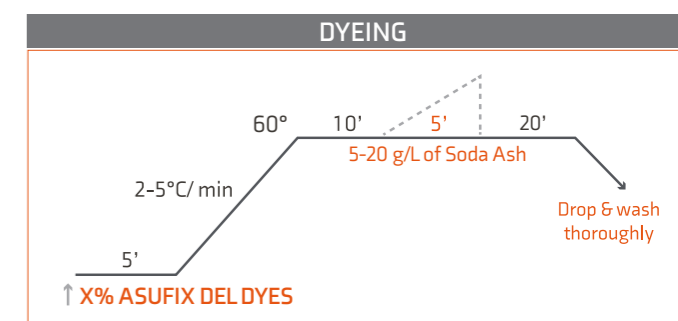
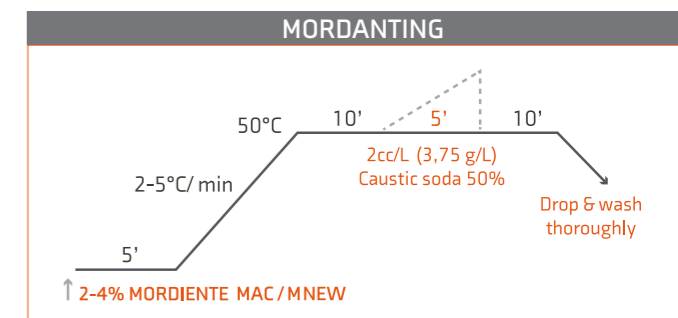


WASHING OFF PROCESS

BATH	COMMENTS
1	Cold rinse for 10 min. at 40°C
2	Cold neutralizing rinse for 10 min. at 40°C
3	Hot rinse for 10 min. at 80°C
4	Soaping with ASUGALABI 85 for 10 min. at 98°C
5	Hot rinse for 10 min. at 80°C
6	Cold rinse for 10 min. at 40°C

For dark shades a second bath with ASUGALABI 85 at 98°C is recommended

DYEING PROCESS FOR WORN-OUT EFFECT



Potassium Permanganate discharge must be done using 20 g/L ACTIVANTE PREND PER except in the case of ASUFIX ORANGE DEL-R, ASUFIX RED DEL-B and ASUFIX GREY DEL-D





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SHORTER PROCESSES



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SMART PIGMENTARY PROCESS

The high performance pigmentary process to achieve deeper shades with weary look on garments. SMART PIGMENTARY PROCESS allows to dye pigments with awesome exhaustion and excellent reproducibility batch to batch, keeping more cleanness on machinery than rest of conventional pigment processes.

As a more sustainable alternative, Cool Pigment process allows to dye light to medium shades in one single bath and at 40°C. Cationization, dyeing, fixing, biopolishing and even softening is carried out in one single step, reverting into significant energy, water and time savings.



DRY IN TUMBLER AT 80-100%



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ASUMAGIC ECO

OBTAIN AN ACID WASH EFFECT ON DENIM AND OXIDANT SENSITIVE DYE STUFFS **WITHOUT OF POTASSIUM PERMANGANATE**

- > Free from hazardous chemicals, heavy metals, chlorine, formaldehyde, APEO, AOX, carcinogenic substances
- > safe for the operator: provides better work environment
- > cost saving in terms of water, energy and time
- > approved by the most important certifications bodies
- > Increased productivity: faster and reproducible way to obtain same worn out effects as conventional processes, such as towel bleach, acid wash, etc.
- > Easy control of parameters: temperature of drying does not influence to the final effect
- > Feasible reoperations: concentration can be adjusted according to final desired effect and garments might be stripped off and dyed again in case is needed.

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ECO FINISH HL

IS THE NEW REVOLUTIONARY CONCEPT OF FINISHING TREATMENT

- > Biopolish process without water.
- > No temperature required during ECOFINISH HL application; temperature comes from dyeing process.
- > Ecofinish HL application does not affect the original shade of garments, respects the tear strength of fabrics and provides excellent effect of abrasion and weary appearance to the dyed garments.
- > Suitable for cationized dyeings such as ASUDEL, ASUFIX DEL & SMART PIGMENTARY ranges.
- > Ecofinish HL avoids redeposition of hydrolysed colour on dyed goods by reactive dyes



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ECO WHITE AW

THE NEW SUSTAINABLE WAY TO OBTAIN FADE OUT EFFECTS
AND WEARY LOOK **WITHOUT OF POTASSIUM PERMANGANATE**

- > Environmental impact reduced by avoiding both potassium permanganate and chlorine.
- > Safe for the operator: provides better work environment.
- > Free from heavy metals, chlorine, formaldehyde apeo, aox, carcinogenic substances.
- > Increased productivity : faster and reproductible way to obtain same worn out effects as conventional processes, such as towel bleach, acid wash, etc.
- > Easy control of parameters: temperature of drying does not influence the final effect.
- > Feasible reoperations: garments might be stripped off and dyed again in case is needed.
- > Concentration can be adjusted according to final desired effect.

FLUOR PIGMENTARY RANGE

ASUPRINT FLUOR E-FF

High pigment concentration with excellent brilliancy and fluorescence. The ASUPRINT FLUOR E-FF range are formaldehyde free and suitable for Oeko-Tex 100 Class I

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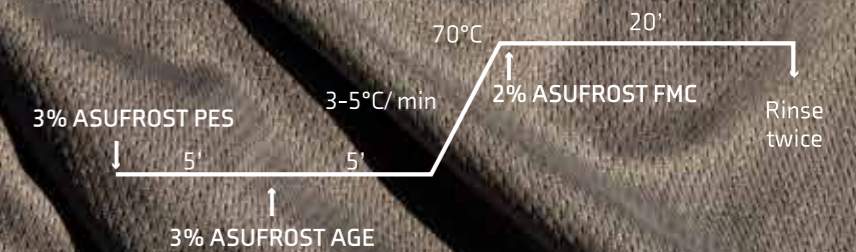
PIGMENTARY DYEING ON SYNTHETIC FIBRES

ASUFROST

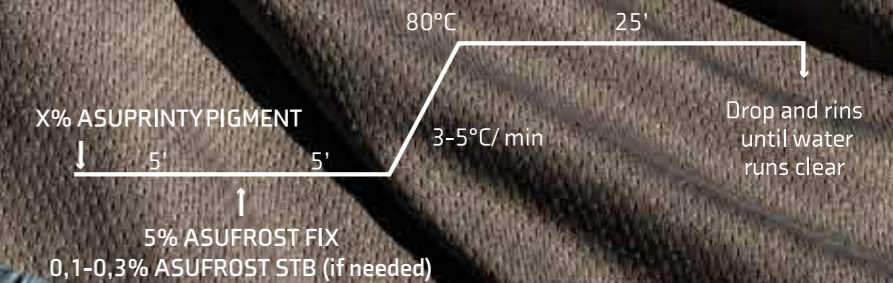
ASUFROST process allows dyeing synthetic fibres with pigments by means of a conventional exhaust process.

ASUFROST process provides a weary effect with hi-lows in seams and trimmings as well as the characteristic frosty effect from pigments on synthetic goods. In addition, the whole process is carried out at 70 C being a much more sustainable method as compared to conventional synthetic dyeing processes. Machines used to dye with ASUFROST remain very clear despite of using pigments. Fastness values in general are better as compared to conventional pigment dyeing on cotton. In addition, goods dyed with ASUFROST process are breathable and maintain original hydrophilicity.

MORDANTING



DYEING





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WATER LESS DYEING ON COTTON AND SYNTHETIC GOODS COMPOUND SAMBA PES

COMPOUND SAMBA PES is a process of application that uses the exact amount of dyes, chemicals, and water than garments need, resulting into zero wastewater coming out of the dyeing process. COMPOUND SAMBA PES is the new and improved version of Compound Samba to get a whit seams effect on both cotton and polyester garments. The resulting fastness have been improved, and the garments treated with COMPOUND SAMBA PES are hydrophilic for a better moisture management.

COMPOUND SAMBA PES APPLICATION

Calculate and prepare COMPOUND SAMBA PES solution according the given tables

Load the garments in dyeing or conventional washing machine.

Spread COMPOUND SAMBA PES solution onto the garments. Turn on the rotation function of machine for 2-5 minutes without adding any water or water steam.

Repeat this operation two more times until completing the total COMPOUND SAMBA PES solution

When the last addition of COMPOUND SAMBA PES solution is added, the rotation function must be on for 20-30 minutes. After that, garments should show an even aspect, without spots or light zones.

Hydro extraction is not necessary. Dry garments into drying machine at maximum available temperature (min. 80-90°C). Once the garments are dried, maintain 10 minutes more to improve final fastness values.

Curing in oven is not strictly necessary.

•••• Finishing: washing

The subsequent treatment is specially recommended in the case of PES garments dyeing or if extra rubbing/washing fastness is required.

1 g/L	ASUTOLFTT POLVO	10 minutes at 40°C
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Rinse

•••• Finishing: fixing

When necessary, rubbing fastness can be improved up to 1 point using the following treatment:

1 g/L	Acetic acid	15 minutes at 40°C
3 %	ASUFIX MF ECO	

Garment can be softened either by an exhaustion process or with micro bubble spray, preferably using hydrophilic silicones: ASUMIN H-RP MICRO, ASUMIN MICRO H or ASUMIN C-HW.

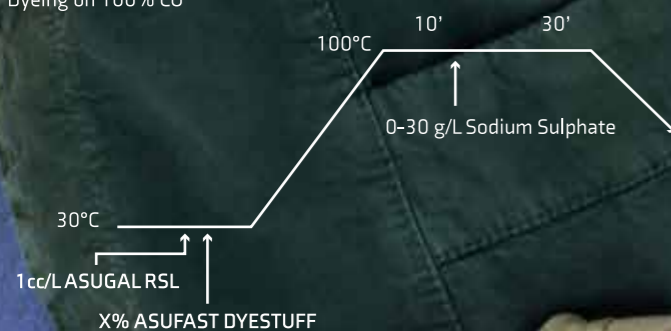
DIRECT DYESTUFF RANGE ASUFAST

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EXHAUSTION DYEING PROCESS

Dyeing on 100% CO



If necessary, fixation with ASUFIX FF will improve wet fastness and fixation with ASUFIX MF will improve rubbing fastness

REACTIVE DYESTUFFS FOR EXHAUSTION APPLICATIONS

ASUFIX RANGES

ROADMAP TO
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ASUFIX ED: Trifunctional reactive dyestuffs for high performance by exhaustion

ASUFIX HP-T: Multifunctional reactive dyestuffs for ultra-deep shades.

ASUFIX AM: Trifunctional reactive dyestuffs for medium shades.

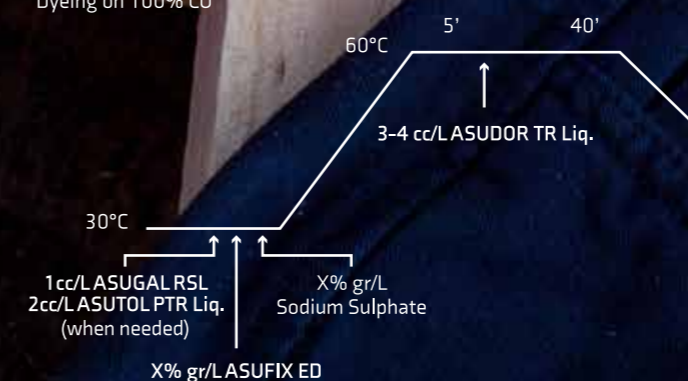
ASUFIX R: Bifunctional reactive dyestuffs

ASUFIX LF: Bifunctional reactive dyestuffs with excellent light fastness.

ASUFIX AF: Arylamine free bifunctional reactive dyestuffs

EXHAUSTION DYEING PROCESS

Dyeing on 100% CO



Rinse and soap with 1 cc/L ASUGAL ALBI 15' at 95°

SOAPING BATH	COMMENTS
1	Cold rinse for 10 min. at 40°C
2	Cold neutralizing rinse for 10 min. at 40°C
3	Hot rinse for 10 min. at 80°C
4	Soaping with ASUGALABI 85 for 10 min. at 98°C
5	Hot rinse for 10 min. at 80°C
6	Cold rinse for 10 min. at 40°C

SOLUBLE RANGE FOR WEARY EFFECTS

ASUDEL

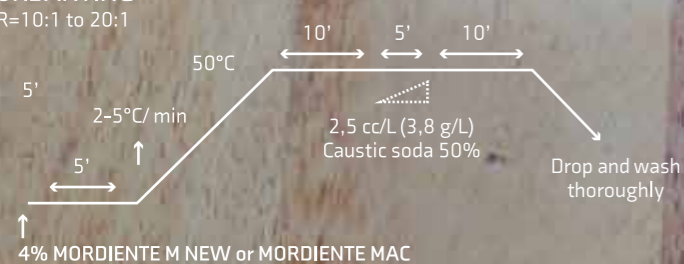


ASUDEL has been our bestseller for many years. Its process is especially designed to get colour shades with similar wash off effects as Denim. ASUDEL are soluble dyes specifically modified to dye cationized fibres to achieve a very superficial dyeing which is easily washed down, offering very nice contrast in seams and trimmings.

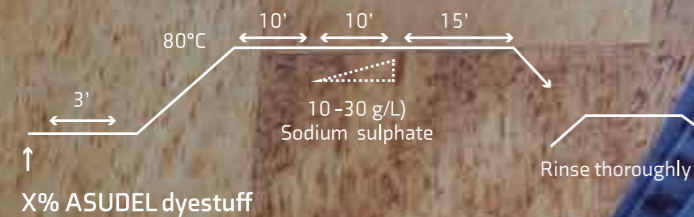
ASUDEL range of dyes was created to obtain deeper shades with same worn out effect than pigments but with several advantages, like no issue on final shade, an easier stripping off, a cleaner machinery and a better rubbing fastness compared to pigments. In addition, ASUDEL dyes can be applied using different types of machines (garment dyeing, jigger, continuous dyeing range...) and on any kind of article (garments, fabric, or yarns).

MORDANTING

LR=10:1 to 20:1



DYEING



FINISHING



DARK SEAMS AND DOUBLE FACE EFFECTS

ASUPREND DS

ASUPREND DS is a unique process that allows to produce the "DOUBLE FACE" effect with outstanding performance on drill and woven fabric garments. At the same time the process gives the effect of dark seams in the garment. ASUPREND DS final look is opposite to White Seams, Samba effect or ASUPREND IDD.

PROCESS

Dipping in a bath containing:

15-30 g/L ASUPREND DS

Pick up: 65-100%

Drying / polymerizing:

Dry in tumbler at 90°C and polymerize in oven 20' at 50°C

Dyeing:

X% Dyestuff

20 gr/L Anhydrous sodium sulphate 30' at 80-85°C

In order to achieve a good contrast ASUFAST AND ASUFIX ranges are recommended

WHITE SEAMS EFFECT WITH SOLUBLE DYES

ASUPREND IDD

ASUPREND IDD is an auxiliary product to carry out a special process for garment dyeing. This process offers a final look, close to cold dyeing effect allowing to get contrast in seams and trimmings, without dirtying tumbler dryer and using direct dyes at room temperature.

PROCESS

Dipping in a bath containing:

80-120 g/L ASUPREND IDD

Dry in tumbler at 90°C

Room temperature dyeing:

X% Dyestuff

20 gr/L Anhydrous sodium sulphate 30' at 30°C

Enzymatic washing:

0,4-2% ASUCELNE, pH 5,5 - 8, 30' at 40-55°C

Fixation (In order to improve rubbing fastness, when needed):

3% ASUFIX MF

1g/L Acetic acid 80%, 20' at 40°C

A SOLUTION FOR INCREASE PRODUCTIVITY
ON TIE&DYE APPLICATIONS

ASUDOR SP-R

ASUDOR SP-R is a special auxiliary product designed to reduce production time as well as the space reserved for garments storage in tie & dye applications. Compared to conventional process that takes from 12 to 24 h reaction, ASUDOR SP-R allows to speed up productions by curing in an oven at 90°C. ASUDOR SP-R is activated by temperature and reactive dyestuff is fixed once garments are completely dried. Once curing is finished, neutralization and wash off is carried out, without risk of contamination among different colours and white areas of garment.

ASUDOR SP-R APPLICATION

600 g/L ASUDOR SP-R
X g/L ASUFIX ED dyestuff
Up to 1000 g/L Water

Load the garments in dyeing or conventional washing machine.

Apply

Dry and cure or steam.

When the last addition of COMPOUND SAMBA PES solution is added, the rotation function must be on for 20-30 minutes. After that, garments should show an even aspect, without spots or light zones.

Hydro extraction is not necessary. Dry garments into drying machine at maximum available temperature (min. 80-90°C). Once the garments are dried, maintain 10 minutes more to improve final fastness values.

Curing in oven is not strictly necessary.

•••• soaping

1 g/L ASUGAL ALBI 85

10 minutes at 90°C

Rinse well

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