



ECO-SUSTAINABLE CHEMICALS

TENSYN - TAK

TENSYN- TAK is a Neutralizing Syntan. It is Light fast anionic Tanning material with good neutralizing and buffering properties and very good dyeing properties. Suitable for all types of leathers.

Specifications :

Base	:	Aromatic sulphonic acid and carboxylic acid
Appearance	:	White coloured fine powder
Concentration	:	95 - 99%
pH	:	8.0 – 8.50
Light Fastness	:	Good
Shelf life	:	One year if kept at normal room temperature

Properties :

TENSYN TAK has good buffering and neutralizing capacity. TENSYN TAK does not lighten anionic dyeing. TENSYN TAK has excellent light fastness and does not yellow when exposed to heat.

TENSYN TAK has mild tanning effect and only modifies the character of chrome leather slightly.

As a result, TENSYN TAK is suitable for the following applications:

1. TENSYN TAK can be used either alone (2-3% on shaved weight) or in combination with commonly used neutralizing agents, e.g sodium bicarbonate sodium formate etc.(0.5-2.0% on shaved weight) in the neutralization of all types of chrome leather.
2. TENSYN TAK is very suitable for use at the start of retanning and can be used either on its own or in combination with other retanning materials.
3. TENSYN TAK has very good leveling properties because of its anionic character, so it does not lighten dyeing with anionic dyestuffs.
4. TENSYN TAK is particularly suitable for use as a neutralizing retaining material for aniline, nubuck, suede and other types of leather where full colours, brilliance, levelness, light-fastness and heat resistance are important.
5. TENSYN TAK –BISL can also be used for white leather and leathers to be dyed to pale shades.

Examples of application

all percentages on shaved weight

Article:Upper leathers/ Upholstery leather/nappa /Small skins

Neutralisation and start of retanning with TENSYN TAK:1-3% TENSYN TAK 30-45 minutes prerun

Retanning as usual with TENIGRAM OTHER SYNTANS.

Passeig de less Estaselles, 26 08600 - BERGA SPAIN

Tenigram Europa, Avinguda Barcelona, 105, IG-Nova Tecnospai D7, Barcelona / Cataluña / Europa



ECO-SUSTAINABLE CHEMICALS

TENSYN - OS

TENSYN- OS is a anionic replacement syntan, tanning material for the retannage of chrome leathers and for vegetable tannage And tanning for all kind of leathers.

Specification:

Appearance	:	Beige colour Powder
Concentration	:	96-98%
Acid number(mg KOH/g)	:	30-35
pH (10g/l)	:	3.5 - 3.8 approx.

Properties:

TENSYN OS is a power syntan that is readily soluble in cold and warm water. It is suitable for a wide range of application in the retannage of all types of chrome leather and in vegetable tanning. If used on its own, it produce almost white leather with a medium handle and medium light-fastness.

Fields of Application and Benefits.

1.Retannage of chrome leather: TENSYN-OS 4% - 6% use.

Fineness of grain:The fine grain of chrome leather is basically retained because TENSYN OS has low astringency. This makes it suitable for all types of aniline leather too.

2.Buffering effect :TENSYN OS has a buffering and slightly neutralizing effect.

Soft handle ,TENSYN OS maintains the tightness of grain but produces leather with a very soft handle.

3.Light shades :TENSYN OS lightens leather considerably when used in combination with vegetable tanning materials. Its good dispersing action ensures that vegetable and resin tanning materials penetrate the leather more deeply and evenly.

4.Dyeing properties :TENSYN OS has a good leveling effect during dyeing and is particularly suitable for pastel shades.

5.White leather:Leathers tanned with TENSYN OS alone are almost white and is suitable for white finishes. Unfinished leathers have moderate light-fastness.

6.Fullness:TENSYN OS has a medium filling action. A strong filling effect is obtained by use in combination with resin materials such as Improves grain pattern

- Lightens and leaves dyeing
- Reduces formation of sludge and mould

6.Suspenders/drum:The optimum amount of TENSYN OS is 20 – 30% of the total amount of Vegetable tanning material.

7.TENSYN OS in vegetable tannage use of 8%- 10% and has advantages of “Accelerates penetration tannage.”

8.TENSYN OS has a moderate acid reserve. When used in conjunction with low acid vegetable tanning materials in the liquor system, it may be advisable to increase the acid reserve by adding 4-6 kg acetic acid (100%) or formic acid (85%) per 100 Kg TENSYN OS. This improves liquor exhaustion, fixation of the tanning materials and the colour of the leather.

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ECO-SUSTAINABLE CHEMICALS

TENSYN - R7

NATURE

TENSYN – R7 is a Anionic powdered amino resin tanning agent, for the tanning of chrome leathers and for vegetable tannage.

Appearance : Light coloured fine powder powder
Concentration : 94 – 98%
pH of 1:6 : 9.0 – 9.5

TENSYN R7 is a powder with fine particle size when diluted in water has a pH of approximately 9.5. **TENSYN R7** has a selective filling, being chiefly deposited in the less closely structured parts of the hide. **TENSYN R7** improves fullness, particularly in the loosely structure parts of the hide. Tightening of the grain and improved feel of the leather.

Far – reaching retention of chrome leather characteristics.

No drawn grain due to lack of astringency., Good level dyeing., No difficulties in paste drying.

A good surface for buffing and embossing , Favourable response to finishing.

No detrimental effect on the characteristics and physical properties of leather during storage – particularly tensile strength.

Application:

TENSYN R7 is suitable for retanning of all types chrome leather, vegetable tannage e.g., for sides, box calf and glacekid. It can be used on its own or in combination with synthetic, vegetable and chrome tanning materials and is best used in undissolved form in a short float.

1. Retanning of full grain or corrected grain side leathers.

Single procedure paste or vacuum drying

Material : Full chrome tanned, shaved sides

Rinse : 10 minutes to 50°C (120°F)

Neutralisation & retannage

(percentages on the shaved weight)

100 – 150% water of 50°C (120°F)

2.0 – 3.0% TENSYN N

0.5 – 1.0% Sodium formate

0.2 – 0.8% Sodium bicarbonate

Run for 20 – 30 minutes

Add 0.3 – 5.0% **TENSYN R7**

Run for 30 – 40 minutes

pH of the float 4.2 – 4.8

Cross section tested with BCG. Inner zone bluish green to BCG

Rinse: 10 minutes, raising to 60°C (140°F)

Dyeing and fatliquoring as usual.

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ECO-SUSTAINABLE CHEMICALS

TENSYN - D

NATURE

TENSYN – D is a Melamine resin tanning agent, for the tanning of chrome leathers, vegetable tannage and for all kind of leather tanning.

Appearance	:	Light cream coloured fine powder
Concentration	:	94 – 98%
pH of 1:6	:	8.0 – 8.5

TENSYN D is a powder with fine particle size when diluted in water has a pH of approximately 8.0-8.5. **TENSYN D** has a selective filling, being chiefly deposited in the less closely structured parts of the hide. **TENSYN D** improves fullness, particularly in the loosely structure parts of the hide. Tightening of the grain and improved feel of the leather. Far – reaching retention of chrome leather characteristics. No drawn grain due to lack of astringency., Good level dyeing., No difficulties in paste drying.

A good surface for buffing and embossing , Favourable response to finishing.

No detrimental effect on the characteristics and physical properties of leather during storage – particularly tensile strength.

Application:

TENSYN D is suitable for retanning of all types chrome leather, vegetable tannage e.g., for sides, box calf and glacekid. It can be used on its own or in combination with synthetic, vegetable and chrome tanning materials and is best used in undissolved form in a short float.

1. Retanning of full grain or corrected grain side leathers.

Single procedure paste or vacuum drying

Material	:	Full chrome tanned, shaved sides
Rinse	:	10 minutes to 50°C (120°F)

Neutralisation & retannage

(percentages on the shaved weight)

100 – 150% water of 50°C (120°F)

2.0 – 3.0% TENSYN N

0.5 – 1.0% Sodium formate

0.2 – 0.8% Sodium bicarbonate

Run for 20 – 30 minutes

Add 0.3 – 5.0% **TENSYN D**

Run for 30 – 40 minutes , pH of the float 4.2 – 4.8 , Cross section tested with BCG. Inner zone bluish green to BCG, Rinse: 10 minutes, raising to 60°C (140°F) , Dyeing and fatliquoring as usual.

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ECO-SUSTAINABLE CHEMICALS

TENSYN - NN

TENSYN- NN is a Dispersing & Dye Leveling Agent and It has good buffering properties and very good dyeing properties. Suitable for all types of leathers.

Specifications :

Base	:	Aromatic sulphonic acid and carboxylic acid
Appearance	:	White coloured fine powder
Concentration	:	95 - 99%
pH	:	7.0 – 7.50
Light Fastness	:	Good
Shelf life	:	One year if kept at normal room temperature

Properties :

TENSYN NN has good Dispersing & buffering and Dye leveling capacity. TENSYN NN does not lighten anionic dyeing. TENSYN NN has excellent light fastness and does not yellow when exposed to heat. TENSYN NN has mild tanning effect and only modifies the character of chrome leather slightly.

As a result, TENSYN NN is suitable for the following applications:

1. TENSYN NN can be used either alone (1-2% on shaved weight) or in combination with commonly used Dispersing agents, e.g sodium bicarbonate sodium formate etc.(0.5-2.0% on shaved weight) in the neutralization of all types of chrome leather.
2. TENSYN NN is very suitable for use at the start of retanning and can be used either on its own or in combination with other retanning materials.
3. TENSYN NN has very good leveling properties because of its anionic character, so it does not lighten dyeing with anionic dyestuffs.
4. TENSYN NN is particularly suitable for use as a Dispersing & Dye Leveling retaining material for aniline, nubuck, suede and other types of leather where full colours, brilliance, levelness, light-fastness and heat resistance are important.
5. TENSYN NN –BISL can also be used for white leather and leathers to be dyed to pale shades.

Examples of application

all percentages on shaved weight

Article: Upper leathers/ Upholstery leather/nappa /Small skins for Dispersing start of retanning with TENSYN NN 1-2% TENSYN NN 30-45 minutes pre run
Retanning as usual with TENIGRAM OTHER SYNTANS.

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ECO-SUSTAINABLE CHEMICALS

TENSYN - HN

NATURE:

TENSYN-HN is Chrome syntan based on chrome containing Aromatic Sulphonic acid condensation product use for all kind of leathers.

USE:

TENSYN-HN when used in re-chroming of full chrome stock renders leathers with fine, smooth grain with soft feel. TENSYN-HN increases tensile strength of the final leathers. TENSYN -HN increases fullness and promotes level dyeing in leather. TENSYN- HN is also recommended for vegetable tanned leathers, during the process of semi-chroming. TENSYN-HN is an ideal chrome syntan for the production of all types of softy, upper and nappa leather. TENSYN-HN is highly recommended in the production of glace kid leathers.

Application:

Percentages are based on shaved weight

2 – 4% TENSYN -HN in re-chroming of all types of leathers except gloving leathers.

3 – 5% TENSYN-HN in addition to chrome for vegetable tanned leathers intended for semi-chroming.

PHYSICAL CONSTANTS

Appearance	:	Green powder
Concentration	:	92 – 94%
pH of 1:6	:	3.0 – 3.5
Cr ₂ O ₃ content	:	12 – 13%

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ECO-SUSTAINABLE CHEMICALS

TENSYN RE-1

□ **NATURE** : Acrylic co-polymer based resin tanning agent for tanning all kinds of Leather.

Nature	Aqueous acrylic polymer
Appearance.....	Viscous fluid
Colour.....	Pale yellowish
pH.....	5.50 ± 1.0
Ionic property	anionic
Active content : 33%	

□ **USE** :

TENSYN RE-1 has been developed for use on chrome-tanned leather requiring a filling effect. It is fixed on the flanks and loose parts of the leather to confer great fullness and to give an excellent pore, without altering the features of chrome-tanned leather.

TENSYN RE-1 can be used for white leather, as it is a non-yellowing product. It should not be used at pH values below 4.3 as it may precipitate. For this reason, leathers should be well neutralized to obtain optimum product performance.

□ **Application:**

TENSYN RE-1 is used after neutralization 3-5%, based on shaved weight or after normal dyeing and fat liquoring 2-3% on shave weight drumming for 30-40 minutes, so that good uptake of the product in the leather is obtained. If necessary, the exhaustion of the TENSYN RE-1 bath can be promoted by adding chrome tanning agent, Aluminium or Zirconium Salts.

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ECO-SUSTAINABLE CHEMICALS

TENSYN - RWP

TENSYN -RWP is a multipurpose replacement syntan , based on phenolic/cresylic material.
TENSYN-RWP can be used as a pretanning material for vegetable tannage and all types of leather.

Properties

Appearance	Off white spray dried powder
Total Solid %	95
PH(1:10)	4.0 - 4.5
Activity	Nil
Storage	Presents no problem under normal storage conditions and has an indefinite shelf life. Some caking may occur if the product is Stored in wan. damp conditions, but this docs not qetractfromilsefficiency.
Safety	According to our best experience, it hasn't any harmful effect on health.

Application & Recommendation

TENSYN -RWP is an extremely versatile syntan and can be safely used over a wide range of process conditions. When used as a retanning syntan on wet blue, it will give a well filled leather with a fine tight grain. It has a dispersing action on other retanning materials which helps to promote even penetration and uptake, giving a full, mellow, uniform feel and handle. This makes it suitable for all retanning applications, from full grain to corrected grain, with a recommended offer of 2% - 6% depending upon leather type.

As it. has a dispersing and bleaching action, it is suitable for use as a dye leveling agent for acid dyes, where it will help to give even shades. It is particularly suitable for use on pastel shades where lightfastness is important, and we would recommend an offer of 0.5%- 4%.It can be used as a bleaching agent for chrome leathers, where it produces a leather with a near white grain with little discolouration on exposure to light.TENSYN-RWP is able to complex with the chrome prejent. and gives a significant bleaching of the surface colour. We would recommend an offer of 4% - 8%, based on shaved weight.

TENSYN-RWP can be used as a pretanning material for most skins, following on with either a chrome or veg tannage. It will give a full, mellow. tight grained leather with an even colour. We would recommend an offer of 1 % - 4% based on pelt weight.

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ECO-SUSTAINABLE CHEMICALS

TENOIL- DX

NATURE : Full synthetic fat liquor manufactured with Spanish Technology based on Silicone with special additive high molecular weight aliphatic hydrocarbons use for all kind of leathers.

CHARACTERISTICS

Appearance	:	light Creamy
Active Content	:	70 ± 2%
pH of 10% emulsion	:	5.5 – 7.0
Light fastness	:	Excellent

PROPERTIES

The emulsion of **TENOIL DX** is stable to acids, alkalis, electrolytes and hard water. And is also stable to the bath containing chrome tannins and vegetable tanning extracts. **TENOIL DX** is a versatile synthetic fatliquoring agent, which penetrates well into the collagen fibre and imparts good softness, waxy touch and elastic grain, so it is particularly suitable for clothing, gloving and upholstery leathers. The use of **TENOIL DX** lends the leather excellent physical properties like tensile strength, stitch tear strength etc., and waxy touch. **TENOIL DX** is light fast in nature and thus it is perfectly suitable for the production of white and pastel shade leathers. **TENOIL DX** with its emulsifying and penetrating property helps to prevent fat spewing even when a high percentage of fatliquors has been used and the COD is too low.

APPLICATION

1)	Cow Softee Upper	:	TENOIL DX	-	3 %
			Tenoil VF	-	2 %
			Tenoil LC-	1 %	
2)	Buff Upholstery	:	TENOIL DX	-	5 %
			Tenoil HP	-	7 %
			Tenoil LP4	-	6 %
			Tenoil KEM	-	4%
3)	Cow White Gloving	:	TENOIL DX	-	8 %
			Tenoil VF	-	2 %
			Tenoil EF-	4 %	
			Tenoil WF	-	2 %
4)	Cow Nappa	:	TENOIL DX	-	5 %
			Tenoil HP	-	5 %
			Tenoil VF	-	2 %

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ECO-SUSTAINABLE CHEMICALS

TENOIL -UFBW

CLASSIFICATION

Excellent fatliquor suitable for Nappa, Upholstery, Gloving, Shoe upper and Softy leathers.

NATURE

Semi-synthetic fatliquor based on sulphochlorinated high molecular weight aliphatic hydrocarbons.

Appearance	:	Transparent pourable light brown colour viscous liquid
Active Content	:	70 ± 2%
pH of 10% emulsion	:	6.0 – 8.0
Light fastness	:	Excellent

USE

The emulsion of **TENOIL UFBW** is stable to acids, alkalis, electrolytes and hard water and is also stable to the bath containing chrome tanning and vegetable tanning extracts. **TENOIL UFBW** is a versatile Semi-synthetic fatliquoring agent, which penetrates well into the collagen fibre and imparts good softness, waxy touch and elastic grain, so it is particularly suitable for clothing, gloving and upholstery leathers. The use of **TENOIL UFBW** lends the leather excellent physical properties like tensile strength, stitch tear strength etc., and waxy touch. **TENOIL UFBW** is light fast in nature and thus it is perfectly suitable for the production of white and pastel shade leathers. **TENOIL UFBW** with its emulsifying and penetrating property helps to prevent fat spewing even when a high percentage of fatliquors has been used and the COD is too low.

EXAMPLE OF USE

1)	Cow Softy Upper :	TENOIL UFBW -	3 %	
		Tenoil NP	-	2 %
		Tenoil LF-	1 %	
2)	Buff Upholstery :	TENOIL UFBW	-	5 %
		Tenoil 20	-	7 %
		Other Fatliquors	-	10 %
3)	Cow White Gloving :	TENOIL UFBW	-	8 %
		Tenoil NP	-	2 %
		Tenoil EF-	4 %	
		Bleaching type fat-		2 %
4)	Cow Nappa :	TENOIL UFBW	-	5 %
		Tenoil 20	-	5 %
		Tenoil NP	-	2%

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ECO-SUSTAINABLE CHEMICALS

TENOIL- C

NATURE

Cold filtered, deodorized, oxidized and polymerized sulphited fish oil based fatliquor manufactured with Spanish Technology.

Use

TENOIL C is an excellent fatliquor suitable for nappa, upholstery, garment, gloving and all kinds of softy leather. The emulsion of TENOIL-C produces very fine emulsion with water at normal temperature conditions. TENOIL -C emulsion is stable to acids, alkalis, electrolytes and hard water. Due to its high penetration it gives excellent softness, moderate fullness and smooth handle. TENOIL C improves tear strength of the leather. It gives best results when used as pre-fatliquoring during the chrome tanning and/or retanning. TENOIL- C gives good washability and dry cleaning fastness and specific weight of the leather remains low. It can be mixed with neutral oils if required and the amounts depend on the kind of neutral oil and conditions of the float.

Example of Use

Cow Softee	:	2 – 4%
Cow CG Uppers	:	2 – 4%
Buff Softee	:	3 – 4%
Split Leathers	:	3 – 5%
Garment Sheep Skin	:	3 – 8%

Physical Constants

Appearance	:	Transparent pourable brown colour viscous liquid
pH of 10% emulsion	:	6.0 – 7.0
Ionic nature	:	Anionic
Light fastness	:	Good

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ECO SUSTAINABLE CHEMICALS

TENFINIS - AN 2100

Anionic Compact

<i>Chemical composition</i>	<i>Based on Multiple Proprietary finishing system</i>
<i>Appearance</i>	<i>Pale White to Creamish Fluid</i>
<i>Solids</i>	<i>24 to 26%</i>
<i>Charge</i>	<i>Anionic</i>
<i>pH 10%</i>	<i>6.5 – 7.5</i>

Application :

TENFINIS- AN 2100 is a PU-Resin compound product which produces medium soft, elastic finish with good anchoring on the leather.

It is best suitable for nappa, softies and soft articles where covering without loading is needed.

Provides excellent covering of visible defects with good fastness.

Can be applied with spray and also by roller coating.

Will not disturb the softness of the leather.

Usage:

Normally 50 to 150 parts in season combination will result in remarkable upgradation.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.



ECO SUSTAINABLE CHEMICALS

TENFINIS ECS

High Shine Dual Lacquer

Chemical composition	Nitrocellulose with solvent and emulsifiers
Appearance	Clear Oil
Solids	Approx 24 %
Film Character	High gloss, Stretch and clear
Storage	Up to 6 months from date of manufacture

Properties and Application :

- » TENFINIS ECS is a high shine dual lacquer based on Nitrocellulose, soluble in both solvent and water. It produces soft glossy film and does not probate grain harshness.
- » TENFINIS ECS withstands both high temperature and very low temperature and also doesn't cause blushing even at temperatures below zero degree which is the added advantage due to the high grade raw materials used.
- » TENFINIS ECS shall be diluted upto two times of its weight with water or solvent/ thinner on "OIL IN WATER" type depending upon the gloss required. It is not adviceable to use mixed low grade solvent/ thinner as it will affect the nature of the product and its usage and may cause coagulation during dilution.

Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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TENFINIS E91

Aliphatic Polyurethane Dispersion

Chemical composition	Polyurethane
Appearance	Milky Emulsion
Solids	35 ± 1%
Charge	Anionic
pH 10%	7.5 – 8.5%
Film Character	Medium Soft, Flexible and Tough
Shelf Life	6 months from the date of manufacture

Properties & Application :

- » TENFINIS E91 is an all-in-all usage PU which is suitable for almost all types of finishes.
- » Provides Excellent cold crack, abrasion and scuff resistance.
- » Excellent anchorage of pigment.
- » Compatible with variety of acrylics, butadiene and other finishing auxiliaries.
- » Very good dry milling properties.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.
Store within 5°C to 35°C in original pack with tightly closed.*

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.



ECO-SUSTAINABLE CHEMICALS

TECHNICAL DATA SHEET

Product Name	TENCOLOR BLACK-NGR (ACID DYES)
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Product Description		Certificate No	RI / LAB / 01
TENCOLOR BLACK-NGR (ACID DYES)		Date	27-09-2024
FINAL PRODUCT ANALYSIS			
Test Description	Analysis	Specifications	
Perkin Elmer Test	1.0%	1.0%	
Color Strength%	100.05%	96% to 104%	
Pass/ Fail	Pass		

COMPOSITION		: TENCOLOR BLACK-NGR (ACID DYES)		
PHYSICAL APPEARANCE		: BLACK POWDER		
ODOUR		: ODOURLESS		
	METHOD	SPECIFICATIONS		TEST RESULT
COLOUR DATA:	EXHAUST DYEING	4D	4 L	DARKER
	EXHAUST DYEING SL	DEEP SL. LIGHT		COMPARABLE
	EXHAUST DYEING	96%	104%	100%
TRANSPARENCY VISUAL				
DATA COLOUR				
CIELAB DL		1.0	1.0	0.522
CIELAB DC		-1.0	1.0	0.425
CIELAB DH		1.0	1.0	0.263
CIELAB DE			1.0	0.175
CIELAB DA		-1.0	1.0	-0.101
CIELAB DB		1.0	1.0	-0.099

CERTIFICATE OF COMPLIANCE THIS BATCH CONFIRMS TO REQUIRED QUALITY STANDARDS	STANDARDS QUALITY CONTROL APPROVAL	TECHNICAL MANAGER PRINTED (DMY) 27-09-2024
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DYING PROCESS

- STEP 1: RECHROMING- 1%
- STEP 2: PENETRATION- 3%
- STEP 3: TOPPING 1%

THE DYE DOES NOT CONTAIN THE BANNED AMMINES LISTED ON THE CEE DIRECTIVES 2002/61 AND 2003/3.



ECO-SUSTAINABLE CHEMICALS

TECHNICAL DATA SHEET

Product Name	TENCOLOR BLACK-NT (ACID DYES)
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Product Description		Certificate No	RI / LAB / 01
TENCOLOR BLACK-NT (ACID DYES)		Date	27-09-2024
FINAL PRODUCT ANALYSIS			
Test Description	Analysis	Specifications	
Perkin Elmer Test	1.0%	1.0%	
Color Strength%	100.05%	96% to 104%	
Pass/ Fail	Pass		

COMPOSITION	: TENCOLOR BLACK-NT (ACID DYES)
PHYSICAL APPEARANCE	: BLACK POWDER
ODOUR	: ODOURLESS

	METHOD	SPECIFICATIONS	TEST RESULT
COLOUR DATA:	EXHAUST DYEING	4D 4 L	DARKER
	EXHAUST DYEING SL	DEEP SL. LIGHT	COMPARABLE
	EXHAUST DYEING	96% 104%	100%

TRANSPARENCY VISUAL				
DATA COLOUR				
CIELAB DL		1.0	1.0	0.522
CIELAB DC		-1.0	1.0	0.425
CIELAB DH		1.0	1.0	0.263
CIELAB DE			1.0	0.175
CIELAB DA		-1.0	1.0	-0.101
CIELAB DB		1.0	1.0	-0.099

CERTIFICATE OF COMPLIANCE THIS BATCH CONFIRMS TO REQUIRED QUALITY STANDARDS	STANDARDS QUALITY CONTROL APPROVAL	TECHNICAL MANAGER PRINTED (DMY) 27-09-2024
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DYING PROCESS

- STEP 1: RECHROMING- 1%
- STEP 2: PENETRATION- 3%
- STEP 3: TOPPING 1%

THE DYE DOES NOT CONTAIN THE BANNED AMMINES LISTED ON THE CEE DIRECTIVES 2002/61 AND 2003/3.



ECO-SUSTAINABLE CHEMICALS

Sodium Metabisulphite

Chemical Formula : $\text{Na}_2\text{S}_2\text{O}_5$
Physical Appearance : WHITE CRYSTALLINE POWDER

Quality Standard : GB1893-1998

Application: bleaching agent for textile fibers; Colors stripper and dechlorination; preparation of Indigo Vat Dye; solubilizing and acidifying agent for leather industries ;bleaching agent for paper pulps; preservative and sterilization agent for food industries
Package: 25kg /50kg compound plastic woven bag with inner polythene liner; 1000kg Jumbo bags ,Any other particular requirements to the package can be discussed.

Shelf Life : Half one year

Storage & handling: Store the product in a cool and dry place: prevent from direct sunlight , water and moisture: avoid contact with strong acid, oxidants or poisonous substances. Exposure to moisture will make it oxidize easily to sodium sulphate. Do not store it for long time

Description: Product Specification:

	Tech Grade	Food Grade
Na ₂ S ₂ O ₅ %	> 99.0 %	> 99.5 %
SO ₂	> 65 %
Fe %	< 0.005	< 0.005 %
Water Insoluble	< 0.05 %
Heavy Metal (Pb) %	< 0.001 %
As %	< 0.0002	< 0.0001 %

Packing :25 Kg. Plastic woven bag

Uses : it can be used as the material of medicine, or used as curing gent of rubber. It also can be used as dechlorination agent and scouring agent of textile. It also can be used in the process of Leather. Moreover, it can be used as the material of fine chemicals, or used as developer in food industry. It can be used as bleaching agent, loosening agent. antiseptis bactericide and anti-oxygen and-staling agent.

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ECO-SUSTAINABLE CHEMICALS

AMONIUM SULPHATE

Item	Technical Data
Appearance	White crystal powder form
Nitrogen	21.50%min
Sulfur	24.26%
Water	0.2%max
Free acid	0.03%max
Fe	0.007%max
As	0.00005%max
Heavy metal(Pb)	0.005%max
Water insolubles	0.01%max

Molecular formula	(NH ₄) ₂ SO ₄
Molecular weight	132.13
Element Composition	If pure substance, nitrogen content is 21.21%, sulfur content is 24.26%.
Density	1.769g/cm ³
Decomposition temperature	235 degrees centigrade
CAS No.	7783-20-2
H.S.code (customs code)	3102.21.00

Application: It is in agriculture use as nitrogen fertilizer. It is a kind of action fertilizer which can make crops thrive and improve fruit quality and yield and strengthen resistance to disaster, can be used for common soil and plant in basic fertilizer. Additional fertilizer and seed manure. It can be suitable specially for soil with lack of sulfur, but for acid soil, ammonium sulfate needs to be applied with lime. 2. Raw material of making compound fertilizer. It can be used in Leather Tanning.

Packing: 25 kg PP Bag , Store at ventilated dry place.

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ECO-SUSTAINABLE CHEMICALS

FORMIC ACID 85%

Description	FORMIC ACID 85%
Chemical family names	monocarboxylic acids
Tariff_No	2915.11.00.00
CAS number	64-18-6
Country of origin	Spain
Business	Specialty Intermediates
Synonyms	

Application :

- 1、 Pharmaceutical industry: Caffeine, Analgin, Aminopyrine, Vitamin B1, etc.
- 2、 Pesticide industry: Triazolone, Disinfest, etc.
- 3、 Chemical industry: Methane amide, DMF, Age resister, etc.
- 4、 Leather industry: Tanning, etc.
- 5、 Textile industry: Natural Rubber.
- 6、 Rubber industry: Coagulation, etc.
- 7、 Steel industry: Acid cleaning of steel production, etc.
- 8、 Paper industry : Pulp manufacturing, etc.
- 9、 Food industry : Disinfectant, etc.
- 10、 Poultry industry: Silage, etc.

The Material Safety Data Sheets are based on the legal requirements in the respective country of production. All information given is based on our current knowledge and experience and does not represent an assurance of properties or suitability for a specific application. Existing laws and regulations must be observed by the recipient of our products at his own responsibility.

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