

# Remazol<sup>®</sup> SAM

**Smart Anchors Meet cotton. Stay competitive**

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**Features**  
**1**

## Features and benefits

Remazol® SAM is a new, economical package of 10 reactive dyes for dyeing cellulosic fibers in exhaust.

The package contain high fast and high performing dyes for pale to medium and for critical shades as well as dyes for economical dark shades

- for pale to dark shades
- strong build-up
- high fixation yield
- good fastness profile
- competitive cost
- compliant with relevant RSL's and Oeko-Tex® Standard 100

If that is what you need, Remazol® SAM is the right answer.

Check out on next pages the properties of these new dyes



Features **2**

## Product overview

Main dyes for pale to medium shades

- Remazol® Yellow SAM, low-photochromic ternary yellow
- Remazol® Red SAM, high fast ternary red
- Remazol® Blue SAM, universal ternary blue
- Remazol® Grey SAM, high fast Grey for critical shades

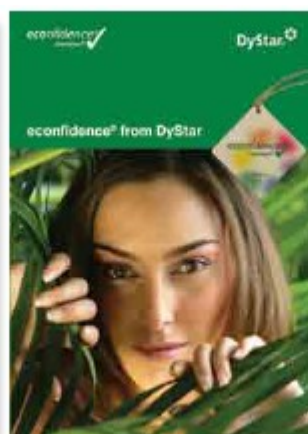
Main dyes for medium to dark shades

- Remazol® Gold SAM, ternary golden yellow with good build up
- Remazol® Terra Cotta SAM, reddish ternary yellow for dark shades
- Remazol® Orange SAM, bright orange for special shades
- Remazol® Maroon SAM, ternary red with outstanding build up
- Remazol® Royal SAM, mainly as self shade for deepest Royal's
- Remazol® Pacific SAM, ternary blue for medium shades
- Remazol® Space SAM, deep Navy with high build up performance

Features **3**

## Eco profile

- Full compliance with Oeko-Tex® Standard 100
- Meets all relevant Restricted Substance Lists (RSL)
- GOTS approved
- Submitted for bluesign® classification





# Remazol Yellow SAM: Technical Properties

Dyeings on bleached cotton knit



**0,25%**

**1,00%**

		Solubility under neutral dyeing conditions							
Neutral substantivity	medium	Glauber's salt				Common salt			
Reactivity	medium	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l
Fixation value	> 80 %	15	15	15	15	15	15	15	15
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
<b>Standard depth</b>			1/25	1/12	1/6	1/3	1/1		
<b>Light fastness ISO 105-B02</b>			5	5	5	5	5-6		
<b>Nike PLF alk. (ISO 105-B07)</b>							4-5		
<b>Fastness to activated bleach detergents (ISO 105-C09)</b>							4-5		
<b>Standard depth 1/1</b>	<b>F</b>	<b>CTA</b>	<b>CA</b>	<b>CO</b>	<b>PA 6.6</b>	<b>PES</b>	<b>PAN</b>	<b>CV</b>	<b>WO</b>
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	5	5		5	5	5	5	5	
Nitrogen fastness ISO 105-G01 3x	4-5								
Chlorine fastness ISO 105-E03 (20 ppm)	5								

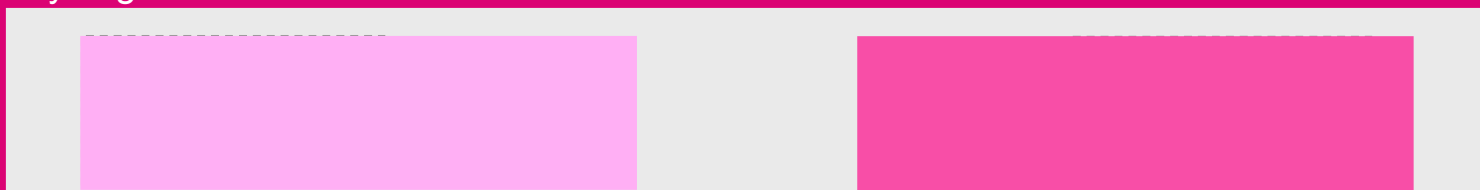
## Features, Benefits and Technical details

**Remazol® Yellow SAM**

- ✓ Low-photochromic ternary yellow with good general fastness performance, high light fastness (B02) and perspiration light fastness (B07)
- ✓ Excellent fastness to nitrogen gases and chlorinated water
- ✓ Very good build up behavior
- ✓ Low staining to Polyamid
- ✓ AOX free
- ✓ Metal free

# Remazol RedSAM: Technical Properties

Dyeings on bleached cotton knit



**0,25%**

**1,00%**

Solubility under neutral dyeing conditions									
Neutral substantivity	medium	Glauber's salt				Common salt			
Reactivity	medium	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l
Fixation value	> 85 %	15	15	15	15	15	15	15	15
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth		1/25	1/12	1/6	1/3	1/1			
Light fastness ISO 105-B02		4	4-5	4-5	5	5			
Nike PLF alk. (ISO 105-B07)									4-5
Fastness to activated bleach detergents (ISO 105-C09)									4-5
Standard depth 1/1	F	CTA	CA	CO	PA 6.6	PES	PAN	CV	WO
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	5		5	5	4-5	5	5	5	
Nitrogen fastness ISO 105-G01 3x	3B								
Chlorine fastness ISO 105-E03 (20 ppm)	3								

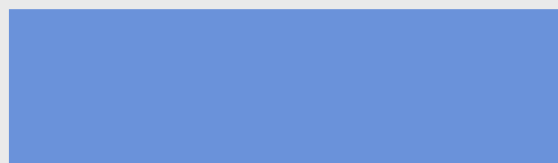
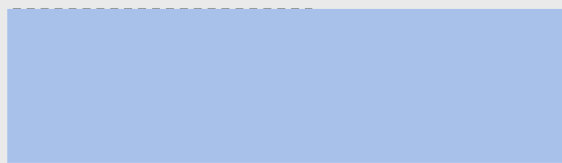
## Features, Benefits and Technical details

**Remazol® Red SAM**

- ✓ Copper free ternary red with high light and perspiration light fastness for pale to medium shades.
- ✓ Very good leveling behaviour
- ✓ Low staining to Polyamid
- ✓ AOX free
- ✓ Metal free

# Remazol Blue SAM: Technical Properties

Dyeings on bleached cotton knit



**0,25%**

**1,00%**

		Solubility under neutral dyeing conditions							
Neutral substantivity	medium	Glauber's salt				Common salt			
Reactivity	medium	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l
Fixation value	> 80 %	15	15	15	15	15	15	15	15
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth		1/25	1/12	1/6	1/3	1/1			
Light fastness ISO 105-B02		5	5	5	5-6	5-6			
Nike PLF alk. (ISO 105-B07)									4-5
Fastness to activated bleach detergents (ISO 105-C09)									4-5
<b>Standard depth 1/1</b>	<b>F</b>	<b>CTA</b>	<b>CA</b>	<b>CO</b>	<b>PA 6.6</b>	<b>PES</b>	<b>PAN</b>	<b>CV</b>	<b>WO</b>
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	4-5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	5	5		4-5	5	5	5	5	
Nitrogen fastness ISO 105-G01 3x	4G								
Chlorine fastness ISO 105-E03 (20 ppm)	4-5								

## Features, Benefits and Technical details

- ✓ Universal ternary blue with high light and perspiration light fastness for pale to dark shades.
- ✓ Very good build up behavior
- ✓ Low staining to Polyamid
- ✓ AOX free

# Remazol Grey SAM: Technical Properties

Dyeings on bleached cotton knit



**0,25%**

**1,00%**

Solubility under neutral dyeing conditions									
Neutral substantivity	low		Glauber's salt				Common salt		
Reactivity	high		50 g/l	80 g/l		50 g/l	80 g/l		
Fixation value	> 80 %		15	15		15	15		
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth			1/25	1/12		1/6	1/3		1/1
Light fastness ISO 105-B02			5	5		5-6	5-6		6
Nike PLF alk. (ISO 105-B07)									4-5
Fastness to activated bleach detergents (ISO 105-C09)									4-5
<b>Standard depth 1/1</b>	<b>F</b>	<b>CTA</b>	<b>CA</b>	<b>CO</b>	<b>PA 6.6</b>	<b>PES</b>	<b>PAN</b>	<b>CV</b>	<b>WO</b>
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	5	5		4-5	4-5	5	5	5	
Nitrogen fastness ISO 105-G01 3x	4								
Chlorine fastness ISO 105-E03 (20 ppm)	2								

## Features, Benefits and Technical details

- ✓ Performance Grey dyes with high light and perspiration light fastness for pale to medium shades.
- ✓ Very good on-tone build up
- ✓ Low staining to Polyamid
- ✓ AOX free

# Remazol GoldSAM: Technical Properties

Dyeings on bleached cotton knit



**1,0%**



**3,00%**

		Solubility under neutral dyeing conditions							
Neutral substantivity	medium	Glauber's salt				Common salt			
Reactivity	medium	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l
Fixation value	>75 %	15	15	15	15	15	15	15	15
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth			1/25	1/12	1/6	1/3	1/1		
Light fastness ISO 105-B02			3	3-4	3-4	4	4-5		
Nike PLF alk. (ISO 105-B07)									4-5
Fastness to activated bleach detergents (ISO 105-C09)									5
<b>Standard depth 1/1</b>	<b>F</b>	<b>CTA</b>	<b>CA</b>	<b>CO</b>	<b>PA 6.6</b>	<b>PES</b>	<b>PAN</b>	<b>CV</b>	<b>WO</b>
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	4-5	5	5	5	5	5	5	5	
Nitrogen fastness ISO 105-G01 3x	5								
Chlorine fastness ISO 105-E03 (20 ppm)	2-3								

## Features, Benefits and Technical details

- ✓ Ternary golden yellow with good build up for medium to deep shade with good fastness level
- ✓ Excellent stability to nitrogen gases
- ✓ Very good build up behavior
- ✓ Good washing-off performance
- ✓ AOX free



# Remazol Orange SAM: Technical Properties

Dyeings on bleached cotton knit



**1,0%**



**3,00%**

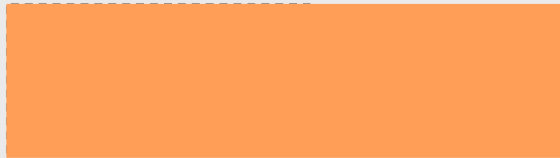
Solubility under neutral dyeing conditions									
Neutral substantivity	medium		Glauber's salt		Common salt				
Reactivity	high		50 g/l	80 g/l	50 g/l				80 g/l
Fixation value	>70%		5	3	5				3
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth			1/25	1/12	1/6	1/3	1/1		
Light fastness ISO 105-B02			2-3	3	3	3-4	4		
Nike PLF alk. (ISO 105-B07)							4		
Fastness to activated bleach detergents (ISO 105-C09)							4-5		
Standard depth 1/1	F	CTA	CA	CO	PA 6.6	PES	PAN	CV	WO
Home laundry / washing 50°C / ISO 105-C06-B2S	4-5		4-5	4	5	5	5		4-5
Home laundry / washing 60°C / ISO 105-C06-C2S	3-4	5	3-4	5	5	5	4-5	5	
Nitrogen fastness ISO 105-G01 3x	4								
Chlorine fastness ISO 105-E03 (20 ppm)	3-4								

## Features, Benefits and Technical details

- ✓ Very bright orange shade
- ✓ Basis for bright scarlet and red shades
- ✓ AOX free

# Remazol Terra Cotta SAM: Technical Properties

Dyeings on bleached cotton knit



**1,00%**



**3,00%**

Solubility under neutral dyeing conditions										
Neutral substantivity	low		Glauber's salt			Common salt				
Reactivity	high		50 g/l	80 g/l		50 g/l		80 g/l		
Fixation value	>75 %		15	15		15		15		
Selected Fastness properties (on bleached, mercerised woven cotton fabric)										
Standard depth			1/25		1/12		1/6		1/3	1/1
Light fastness ISO 105-B02			3-4		3-4		4		4	4-5
Nike PLF alk. (ISO 105-B07)										4-5
Fastness to activated bleach detergents (ISO 105-C09)										4-5
Standard depth 1/1	F	CTA	CA	CO	PA 6.6	PES	PAN	CV	WO	
Home laundry / washing 50°C / ISO 105-C06-B2S	4-5		5	4-5	4-5	5	5		5	
Home laundry / washing 60°C / ISO 105-C06-C2S	4-5	5		4-5	4-5	5	5	4-5		
Nitrogen fastness ISO 105-G01 3x	4D									
Chlorine fastness ISO 105-E03 (20 ppm)	3-4D									

## Features, Benefits and Technical details

- ✓ Trichromatic strong reddish yellow for dark to very deep shades.
- ✓ Very good build up behavior
- ✓ Good washing properties
- ✓ Good light and wet light fastness
- ✓ White dischargeable
- ✓ AOX free

# Remazol Maroon SAM: Technical Properties

Dyeings on bleached cotton knit



**1,0%**



**3,00%**

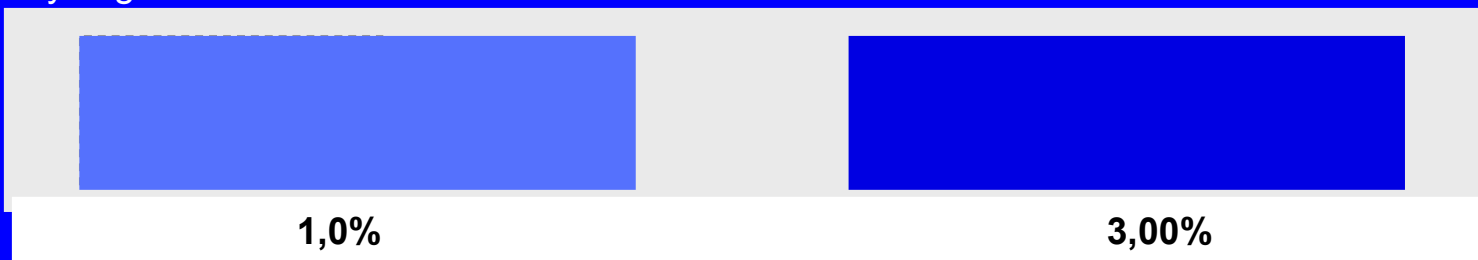
Solubility under neutral dyeing conditions									
Neutral substantivity		Glauber's salt				Common salt			
Reactivity		50 g/l	80 g/l		50 g/l	80 g/l			
Fixation value		15	15		15	15			
Selected Fastness properties (on bleached, mercerised woven cotton fabric)									
Standard depth					1/25	1/12	1/6	1/3	1/1
Light fastness ISO 105-B02					3-4	3-4	3-4	4	4-5
Nike PLF alk. (ISO 105-B07)									3-4
Fastness to activated bleach detergents (ISO 105-C09)									4-5
Standard depth 1/1	F	CTA	CA	CO	PA 6.6	PES	PAN	CV	WO
Home laundry / washing 50°C / ISO 105-C06-B2S	4-5		5	4-5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	4-5	5	4-5	4-5	5	5	5	4-5	
Nitrogen fastness ISO 105-G01 3x	4-5								
Chlorine fastness ISO 105-E03 (20 ppm)	4-5								

## Features, Benefits and Technical details

- ✓ Cost effective red dye for dyeing very deep shades.
- ✓ Exceptional color strength and build up behavior
- ✓ Good light and wet light fastness
- ✓ Stable to nitrogen oxides
- ✓ AOX free

# Remazol Royal SAM: Technical Properties

Dyeings on bleached cotton knit



1,0%

3,00%

		Solubility under neutral dyeing conditions							
		Glauber's salt				Common salt			
		50 g/l		80 g/l		50 g/l		80 g/l	
Neutral substantivity	high								
Reactivity	medium								
Fixation value	>80%	15		15		15		15	
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth				1/25	1/4	1/6	1/3	1/1	
Light fastness ISO 105-B02				3-4	4	3-4	4	4-5	
Nike PLF alk. (ISO 105-B07)								????	
Fastness to activated bleach detergents (ISO 105-09)								4-5	
Standard depth 1/1		CTA	MA	CO	PA 6.6	PES	PAN	CV	WO
Home laundry / washing 50°C / ISO 105-C06-B2S		4-5	5	4-5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S		5	4-5	4-5	5	5	5	4-5	
Nitrogen fastness ISO 105-G01 3x		4-5							
Chlorine fastness ISO 105-E03 (20 ppm)		4-5							

## Features, Benefits and Technical details

- ✓ Very bright Royal Blue dye
- ✓ Exceptional color strength and build up behavior
- ✓ Good light and wet light fastness
- ✓ AOX free

# Remazol PacificSAM: Technical Properties

Dyeings on bleached cotton knit



**1,0%**



**3,00%**

		Solubility under neutral dyeing conditions							
Neutral substantivity	medium	Glauber's salt				Common salt			
Reactivity	medium	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l
Fixation value	> 80 %	15	15	15	15	15	15	15	15
<b>Selected Fastness properties (on bleached, mercerised woven cotton fabric)</b>									
Standard depth		1/25	1/12	1/6	1/3	1/1			
Light fastness ISO 105-B02		3-4	3-4	4	4	4-5			
Nike PLF alk. (ISO 105-B07)									3-4
Fastness to activated bleach detergents (ISO 105-C09)									4
Standard depth 1/1	F	CTA	CA	CO	PA 6.6	PES	PAN	CV	WO
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	5	5	5	5		5
Home laundry / washing 60°C / ISO 105-C06-C2S	5		5	5	5	5	5	5	
Nitrogen fastness ISO 105-G01 3x	4-5								
Chlorine fastness ISO 105-E03 (20 ppm)	4								

## Features, Benefits and Technical details

- ✓ Ternary blue for medium to dark shades with good fastness performance.
- ✓ Dischargeable
- ✓ Very good build up behavior
- ✓ AOX free

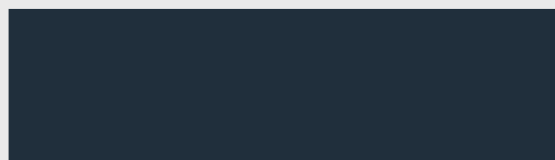


# Remazol Space SAM: Technical Properties

Dyeings on bleached cotton knit



**2,0%**



**4,00%**

		Solubility under neutral dyeing conditions							
Neutral substantivity	medium	Glauber's salt				Common salt			
Reactivity	high	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l	50 g/l	80 g/l
Fixation value	>80%	15	15	15	15	15	15	15	15
Selected Fastness properties (on bleached, mercerised woven cotton fabric)									
Standard depth		1/25	1/12	1/6	1/3	1/1			
Light fastness ISO 105-B02		3	3	3-4	4	4-5			
Nike PLF alk. (ISO 105-B07)									3
Fastness to activated bleach detergents (ISO 105-C09)									3-4
Standard depth 1/1	F	CTA	CA	CO	PA 6.6	PES	PAN	CV	WO
Home laundry / washing 50°C / ISO 105-C06-B2S	5		5	5	5	5	5		4-5
Home laundry / washing 60°C / ISO 105-C06-C2S	5	5		4-5	5	4-5	5	5	
Nitrogen fastness ISO 105-G01 3x	5								
Chlorine fastness ISO 105-E03 (20 ppm)	4								

## Features, Benefits and Technical details

- ✓ Deep Navy dye for economical dark trichromatic shades
- ✓ Good build up
- ✓ Improved fastness properties.
- ✓ Very good build up behavior
- ✓ AOX free

Our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and environmental specifications.



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