

Fastness as self shade

		Dyeing Depth (1/1SD)	Light		Washing		Water	Oxidative bleach damage	Rubbing
			ISO 105-B02	AATCC 16E 20AFU	ISO 105-C06, C2S	AATCC 61-2A	ISO 105-E01	M&S C10A	ISO 105-X12
			Ch	Ch	Ch/CO	Ch/CO	Ch/CO	Ch	Dry/Wet
Exhaust dyeing	Ultra Yellow DS	2.0%	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4	4-5/3-4
	Ultra Orange DS	2.0%	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/3-4
	Ultra Red DS	2.0%	4	4-5	4-5/4	4-5/4-5	4-5/3-4	4	4-5/2-3
	Ultra Wine DS	1.5%	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/3
	Ultra Deep Blue DS	3.5%	4-5	4-5	4-5/4	4-5/4-5	4-5/4-5	4	4-5/3
	Ultra Navy DS	2.0%	3-4	3-4	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/3
	Ultra Navy DS-R	1.5%	4	4	4-5/4-5	4-5/4-5	4-5/4-5	3-4	4-5/3
Continuous dyeing	Ultra Yellow DS	20g/l	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/4
	Ultra Orange DS	20g/l	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/4
	Ultra Red DS	20g/l	4	4-5	4-5/4-5	4-5/4-5	4-5/3-4	4	4-5/3
	Ultra Wine DS	15g/l	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/3-4
	Ultra Deep Blue DS	30g/l	4-5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4	4-5/3-4
	Ultra Navy DS	20g/l	3-4	4	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/3-4
	Ultra Navy DS-R	15g/l	4	4	4-5/4-5	4-5/4-5	4-5/4-5	3-4	4-5/3-4
Printing	Ultra Yellow DS	20g/kg	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4	4-5/4
	Ultra Orange DS	20g/kg	5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/4
	Ultra Red DS	20g/kg	4	4-5	4-5/4-5	4-5/4-5	4-5/4	4	4-5/3
	Ultra Wine DS	15g/kg	4	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5	4-5/3-4
	Ultra Deep Blue DS	20g/kg	4-5	4-5	4-5/4-5	4-5/4-5	4-5/4-5	4	4-5/3-4
	Ultra Navy DS	15g/kg	3-4	4	4-5/4-5	4-5/4-5	4-5/4-5	4	4-5/3-4
	Ultra Navy DS-R	10g/kg	3-4	4	4-5/4-5	4-5/4-5	4-5/4-5	3-4	4-5/3-4

Material : Exhaust dyeing - Unmercerized cotton, Continuous dyeing - Mercerized cotton, Printing - Mercerized cotton

Synozol Ultra DS dyes

FOR EXHAUST DYEING, CONTINUOUS DYEING & PRINTING



KYUNG-IN SYNTHETIC CORPORATION



SYSTEM PARTNER



control
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KYUNG-IN SYNTHETIC CORPORATION

Synozol Ultra DS dyes

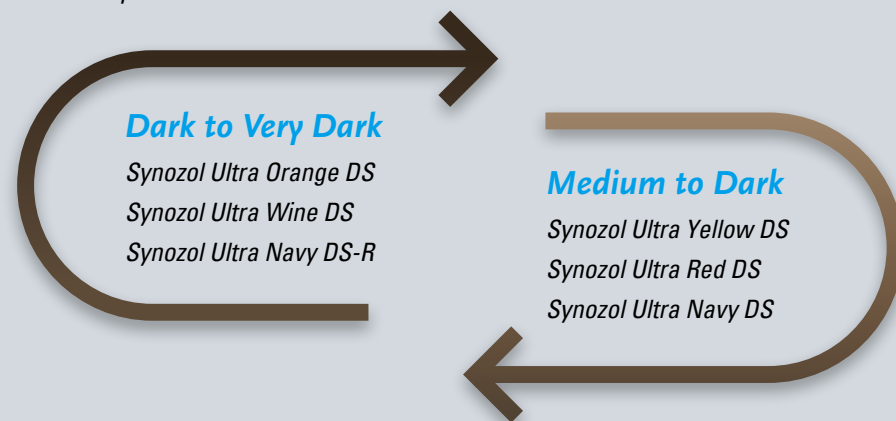
wide application range

Synozol Ultra DS dyes have been developed to produce cost effective dark shades while offering an ease of application across most continuous, printing and exhaust processes with high reproducibility and good overall fastness.

- **Excellent Build up Properties**
- **Good Wet fastness**
- **Flexible Application methods (Exhaust dyeing, Continuous dyeing & Printing)**

Positioning

Main Trichromatic dyes



Supplementary




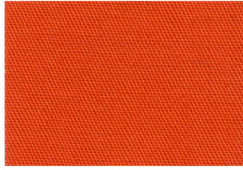
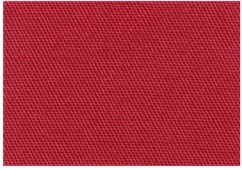




Synozol Ultra Deep Blue DS for good light fastness & perspiration light fastness

Application	Ultra Yellow DS	Ultra Orange DS	Ultra Red DS	Ultra Wine*	Ultra Deep Blue DS	Ultra Navy DS	Ultra Navy DS-R
Exhaust dyeing	+++	+++	+++	++	+++	+++	+++
Continuous Dyeing	+++	+++	+++	+++	+++	+++	+++
Direct Printing	+++	+++	++	+++	+++	+++	+++
Discharge Printing	+++	+++	+	+++	++	+++	+++
Resist Printing (ground)	+	+++	+	+++	+	+++	+++


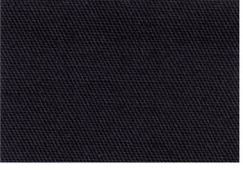

+++ : suitable / ++ : suitable with limits / + : unsuitable
* Recommended use : over 1.0% o.w.f for Exhaust dyeing

Very Dark Shades

Shade (1/1 standard depth)

	Ultra Orange DS	Ultra Wine DS	Ultra Navy DS-R
Exhaust dyeing	 2.0%	 1.5%	 1.5%
Continuous dyeing	 20g/ℓ	 15g/ℓ	 15g/ℓ
Printing	 20g/kg	 15g/kg	 10g/kg

The ultimate economical solution for very dark shades

Stretch Limo 	Exhaust dyeing	Saving 84%	C.I Reactive Yellow 145	3.75%											
	<table border="1"> <tr> <td>Synozol Ultra Orange DS</td> <td>0.70%</td> </tr> <tr> <td>Synozol Ultra Wine DS</td> <td>0.55%</td> </tr> <tr> <td>Synozol Ultra Navy DS-R</td> <td>1.97%</td> </tr> <tr> <td>Total</td> <td>3.22%</td> </tr> </table> <p>Strength % = 100.0%</p>		Synozol Ultra Orange DS	0.70%	Synozol Ultra Wine DS	0.55%	Synozol Ultra Navy DS-R	1.97%	Total	3.22%	<table border="1"> <tr> <td>C.I Reactive Red 195</td> <td>5.99%</td> </tr> <tr> <td>C.I Reactive Blue 222</td> <td>5.99%</td> </tr> <tr> <td>Total</td> <td>15.73%</td> </tr> </table> <p>Strength % = 80.0%</p>	C.I Reactive Red 195	5.99%	C.I Reactive Blue 222	5.99%
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Synozol Ultra Wine DS	0.55%														
Synozol Ultra Navy DS-R	1.97%														
Total	3.22%														
C.I Reactive Red 195	5.99%														
C.I Reactive Blue 222	5.99%														
Total	15.73%														
Dark Navy 	Continuous dyeing	Saving 74%	C.I Reactive Yellow 145	25.0g/ℓ											
	<table border="1"> <tr> <td>Synozol Ultra Orange DS</td> <td>5g/ℓ</td> </tr> <tr> <td>Synozol Ultra Wine DS</td> <td>5g/ℓ</td> </tr> <tr> <td>Synozol Ultra Navy DS-R</td> <td>16g/ℓ</td> </tr> <tr> <td>Total</td> <td>26g/ℓ</td> </tr> </table> <p>Strength % = 100.0%</p>		Synozol Ultra Orange DS	5g/ℓ	Synozol Ultra Wine DS	5g/ℓ	Synozol Ultra Navy DS-R	16g/ℓ	Total	26g/ℓ	<table border="1"> <tr> <td>C.I Reactive Red 195</td> <td>15.2g/ℓ</td> </tr> <tr> <td>C.I Reactive Blue 222</td> <td>59.8g/ℓ</td> </tr> <tr> <td>Total</td> <td>100g/ℓ</td> </tr> </table> <p>Strength % = 100.0%</p>	C.I Reactive Red 195	15.2g/ℓ	C.I Reactive Blue 222	59.8g/ℓ
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Total	26g/ℓ														
C.I Reactive Red 195	15.2g/ℓ														
C.I Reactive Blue 222	59.8g/ℓ														
Total	100g/ℓ														
Black Coffee 	Printing	Saving 50%	Golden Yellow P-2RN	20.9g/kg											
	<table border="1"> <tr> <td>Synozol Ultra Orange DS</td> <td>10.16g/kg</td> </tr> <tr> <td>Synozol Ultra Wine DS</td> <td>8.48g/kg</td> </tr> <tr> <td>Synozol Ultra Navy DS-R</td> <td>12.32g/kg</td> </tr> <tr> <td>Total</td> <td>30.96g/kg</td> </tr> </table> <p>Strength % = 100.0%</p>		Synozol Ultra Orange DS	10.16g/kg	Synozol Ultra Wine DS	8.48g/kg	Synozol Ultra Navy DS-R	12.32g/kg	Total	30.96g/kg	<table border="1"> <tr> <td>Red P-6B</td> <td>9.5g/kg</td> </tr> <tr> <td>Navy Blue P-2R</td> <td>31.0g/kg</td> </tr> <tr> <td>Total</td> <td>61.4g/kg</td> </tr> </table> <p>Strength % = 100.0%</p>	Red P-6B	9.5g/kg	Navy Blue P-2R	31.0g/kg
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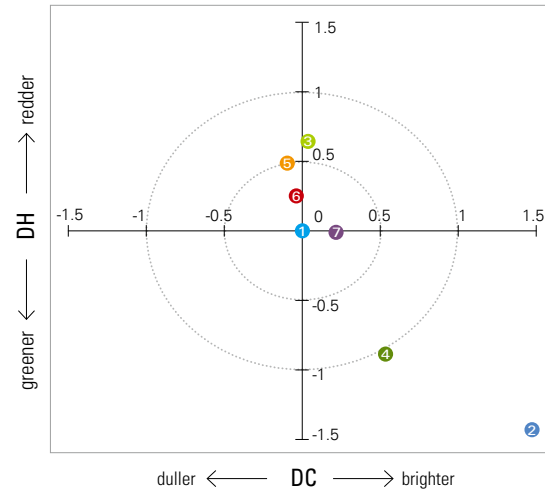
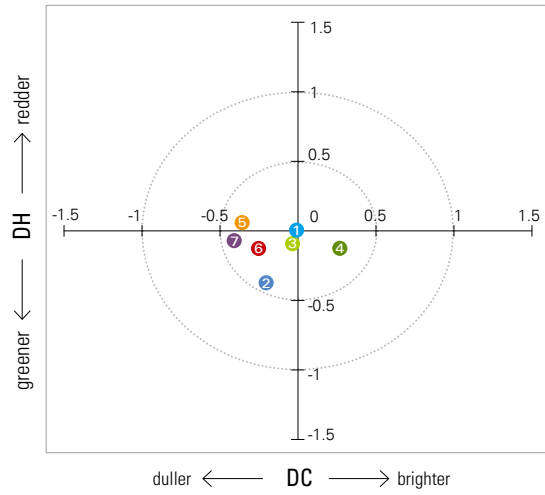
Low Sensitivity to dyeing Factors in PDPS

Synozol Ultra DS

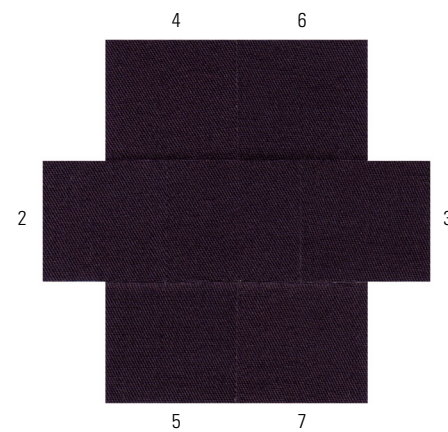
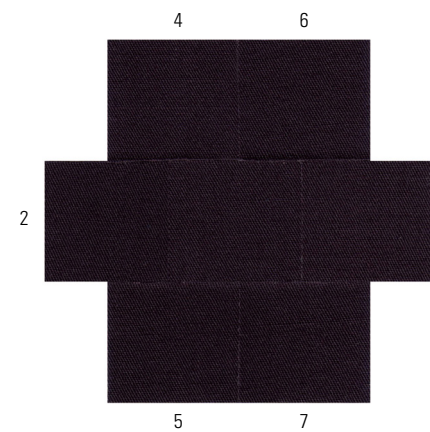
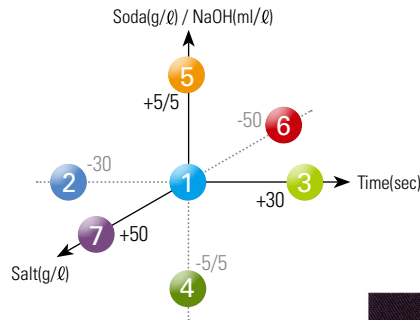
Synozol Ultra Yellow DS	10g/ℓ
Synozol Ultra Red DS	10g/ℓ
Synozol Ultra Navy DS	10g/ℓ
Total	30g/ℓ

Conventional dyes

C.I Reactive Yellow 145	15.5g/ℓ
C.I Reactive Red 195	17.8g/ℓ
C.I Reactive Blue 222	21.4g/ℓ
Total	54.7g/ℓ

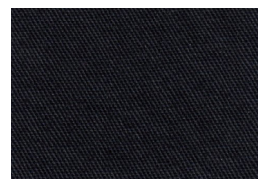


1 standard condition
Salt 200g/ℓ
Soda ash 20g/ℓ
NaOH 10ml/ℓ
Time 60sec



Economically Sensible in Printing

Dark Grey



Synozol Ultra DS

Synozol Ultra Yellow DS	10g/kg
Synozol Ultra Red DS	5g/kg
Synozol Ultra Navy DS	20g/kg
Total	35g/kg

Saving 47%

Conventional dyes

Golden Yellow P-2RN	11.7g/kg
Red P-6B	4.6g/kg
Navy Blue P-2R	49.4g/kg
Total	65.7g/kg

Synozol Ultra Deep Blue DS

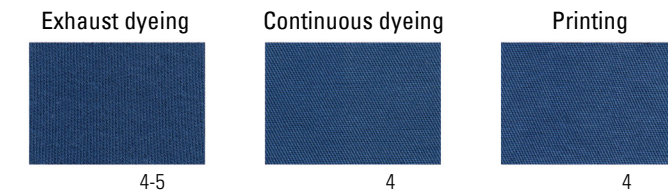
Good fastness to light and perspiration light fastness for medium to dark shades
Excellent compatibility with Synozol Ultra DS dyes

Shade (1/1 standard depth)

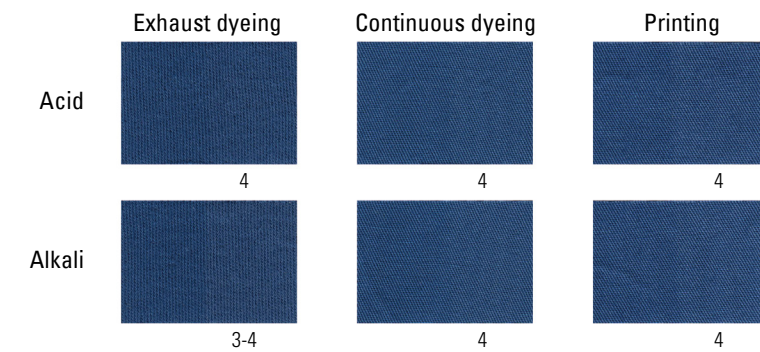


Good Light fastness & Perspiration Light fastness

Light fastness (ISO 105-B02) at 1/2SD



Perspiration Light Fastness (ISO 105-B07) at 1/2 SD



Excellent Compatibility in Exhaust dyeing

Synozol Ultra Yellow DS 1.0%
Synozol Ultra Red DS 1.0%
Synozol Ultra Deep Blue DS 1.0%

