

Levafix CA: Real team players covering a large shade and fastness area

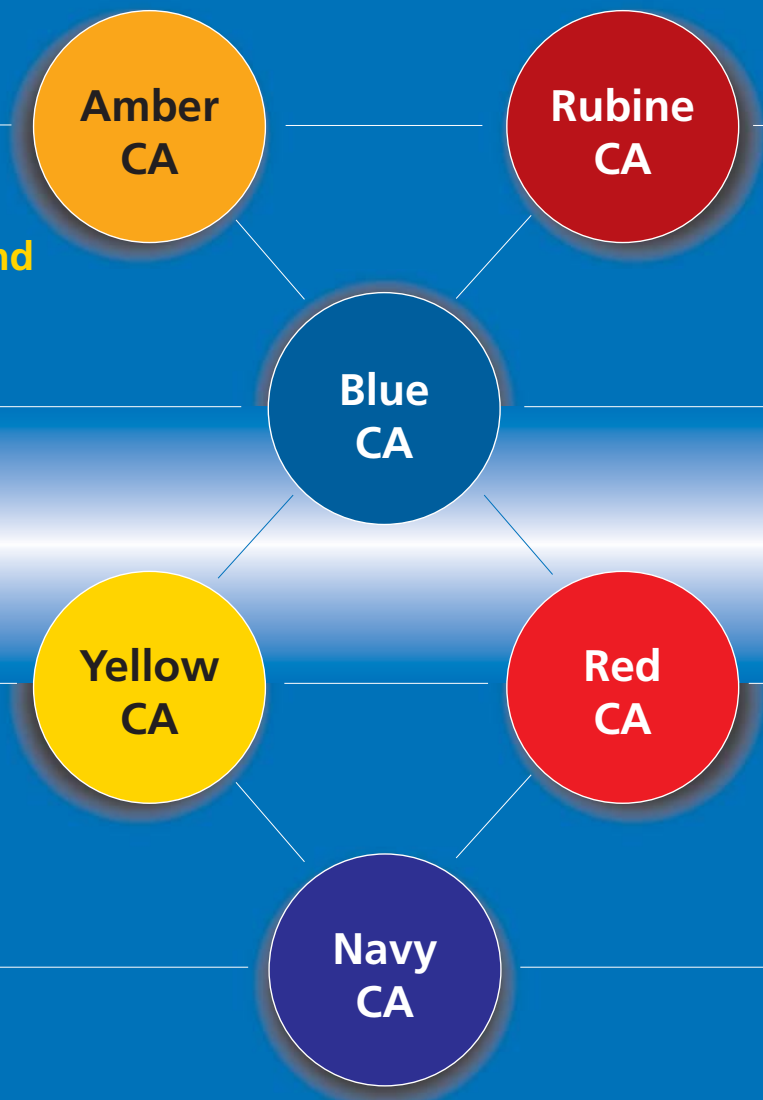
Trichromatic dyes

Premium trichromatic dyes for highest light fastness and non-photochromic shades

High-performance trichromatic dyes

High-performance trichromatic dyes for dark shades

Shade specialists



Brilliant Yellow CA

flexible bright greenish yellow

Orange CA

for brilliant red and orange shades

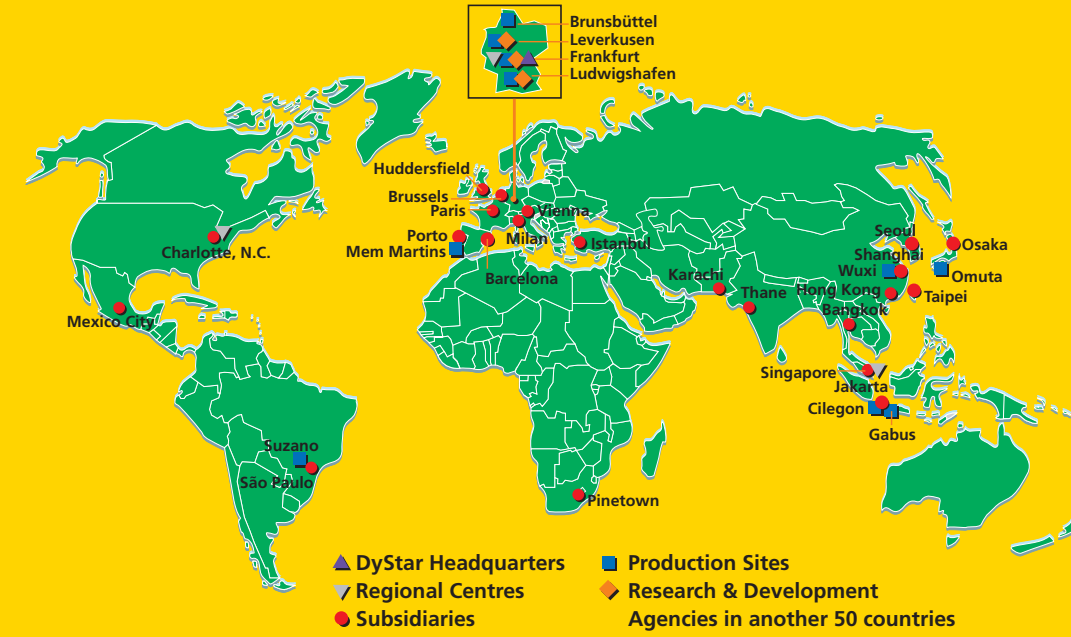
Scarlet CA

for brilliant red and coral shades

Olive CA

for earth and khaki shades

A full range of products, global service and ongoing innovation create tangible benefits for our customers. Worldwide.



Austria/Eastern Europe
DyStar Bencolor Farben GmbH
Akaziengasse 30
Postfach 42
1234 Vienna
Tel.: ++43-1-699 87 17
Fax: ++43-1-699 45 30
DyStar.Austria@DyStar.com

Belgium
DyStar Benelux N.V.
Ter Eecken 6
9700 Oudenaarde
Tel.: ++32-55-33-58 52
Fax: ++32-55-33-58 55
DyStar.Benelux@DyStar.com

Brazil
DyStar Ltda.
Rua Alexandre Dumas, 1711-2º andar
04717-004 – Chác. Sto. Antônio
São Paulo / SP
Tel.: ++55-11-51 85 41 73
Fax: ++55-11-51 85 42 24
DyStar.Brazil@DyStar.com

China/Hong Kong
DyStar China Ltd.
18/F, Yen Sheng Centre
64 Hoi Yuen Road
Kwun Tong, Hong Kong
Tel.: ++85-2-29 55 33 88
Fax: ++85-2-29 55 11 88
DyStar.China@DyStar.com

China/Shanghai
DyStar (Shanghai) Trading Co., Ltd.
5/F, Section 501A, Building No. 9
99 Tian Zhou Road
Shanghai Caohejing Hi-Tech Park
Shanghai 200233
Tel.: ++86-21-54 45 00 22
Fax: ++86-21-54 45 03 08
DyStar.China@DyStar.com

France
DyStar France s.a.r.l.
30, avenue Edouard Belin
92566 Rueil Malmaison Cedex
Tel.: ++33-1-41 39 12 20
Fax: ++33-1-41 39 12 49
DyStar.France@DyStar.com

Germany
DyStar Vertrieb D-A-CH/Nordica
65926 Frankfurt am Main
Tel.: ++49-69-21 09-22 36
Fax: ++49-69-21 09-26 06
DyStar.Germany@DyStar.com

India
DyStar India Private Limited
Mumbai - Agra Road
Balkum, Thane 400 608
Tel.: ++91-22-25 41 09 99
Fax: ++91-22-25 41 18 34
DyStar.India@DyStar.com

Indonesia
PT DyStar Colours Indonesia
Menara Global Building
22nd Floor
Jln. Gatot Subroto Kav. 27
Jakarta 12930
Tel.: ++62-21-527 05 50
Fax: ++62-21-527 05 20
DyStar.Indonesia@DyStar.com

Italy
DyStar Italia S.r.l.
Via delle Groane 126
20024 Garbagnate Milanese (MI)
Tel.: ++39-02-99 44 01
Fax: ++39-02-99 02 83 91
DyStar.Italy@DyStar.com

Japan
DyStar Japan Ltd.
7-20, Azuchimachi 1-chome,
Chuo-ku, Osaka 541-0052
Tel.: ++81-6-62 63 66 72
Fax: ++81-6-62 63 66 91
DyStar.Japan@DyStar.com

Korea
DyStar Korea Ltd.
141-28, 10th fl.
Dong Shin Building
Samsung-dong, Kangnam-gu.
P.O. Box Kangnam 537
135-090 Seoul
Tel.: ++82-2-34 52 78 78
Fax: ++82-2-34 52 78 76
DyStar.Korea@DyStar.com

Mexico
DyStar de México S.A. de C.V.
Arenal 24 – Edificio Sur – 3er Piso
Col. Ex-Hda. Gpe. Chimalistac
01050-México, D.F.
Tel.: ++52-55-5322-51 00
Fax: ++52-55-5662-56 18
DyStar.Mexico@DyStar.com

Pakistan
DyStar Pakistan (Private) Limited
Bahria Complex-II, 2F
M. T. Khan Road
Karachi-74000
Tel.: ++92-21-561-18 19
Fax: ++92-21-561-16 24
DyStar.Pakistan@DyStar.com

Portugal
DyStar Anilinas Têxteis
Unipessoal, Lda.
Rua Manuel Pinto de Azevedo, 626
4100-320 Porto
Tel.: ++351-22-6 15 31 80
Fax: ++351-22-6 15 31 90
DyStar.Portugal@DyStar.com

Singapore
DyStar Singapore Pte. Ltd.
152 Beach Road
#37-00 The Gateway East
Singapore 189721
Tel.: ++65-62 98 79 22
Fax: ++65-62 95 53 08
DyStar.Singapore@DyStar.com

South Africa
DyStar South Africa (Pty) Ltd.
16 Henwood Road, P.O. Box 1421
Pinetown 3610
Tel.: ++27-31-710 65 09
Fax: ++27-31-7 09 37 32
DyStar.SouthAfrica@DyStar.com

Spain
DyStar Hispania, S.A.
c/Famadas, 37-57
08907 Hospitalet de Llobregat
Tel.: ++34-93-2 64 04 40
Fax: ++34-93-2 64 04 58
DyStar.Spain@DyStar.com

Taiwan
DyStar Taiwan Ltd.
5th Fl., No. 196, Sec. 2
Chien Kuo N. Road
104 Taipei, Taiwan, R.O.C.
Tel.: ++886-2-25 16 37 77
Fax: ++886-2-25 16 81 99
DyStar.Taiwan@DyStar.com

Thailand
DyStar Thai Ltd.
193 Lake Rajada Building
17th floor
Ratchadapisek Road
Klongtoey, Bangkok 10110
Tel.: ++66-2-2 64 04 70
Fax: ++66-2-2 64 04 74
DyStar.Thai@DyStar.com

Turkey
DyStar Tekstil Boyalari
Ticaret Limited Sirketi
Merkez Efendi Mahallesi
Yilanli Ayazma Sokak 14-16
34020 Topkapi/Istanbul
Tel.: ++90-212-482 01 00
Fax: ++90-212-482 01 06
DyStar.Turkey@DyStar.com

United Kingdom
DyStar UK Ltd.
Pennine Business Park/Unit 2
Bradley Road, Huddersfield
West Yorkshire HD2 1RA
Tel.: ++44-14-84 41 14 00
Fax: ++44-14-84 41 14 01
DyStar.UK@DyStar.com

USA
DyStar L.P.
9844-A Southern Pine Boulevard
Charlotte, NC 28273
Tel.: ++1-704-561 30 00
Fax: ++1-704-561 30 05
DyStar.USA@DyStar.com

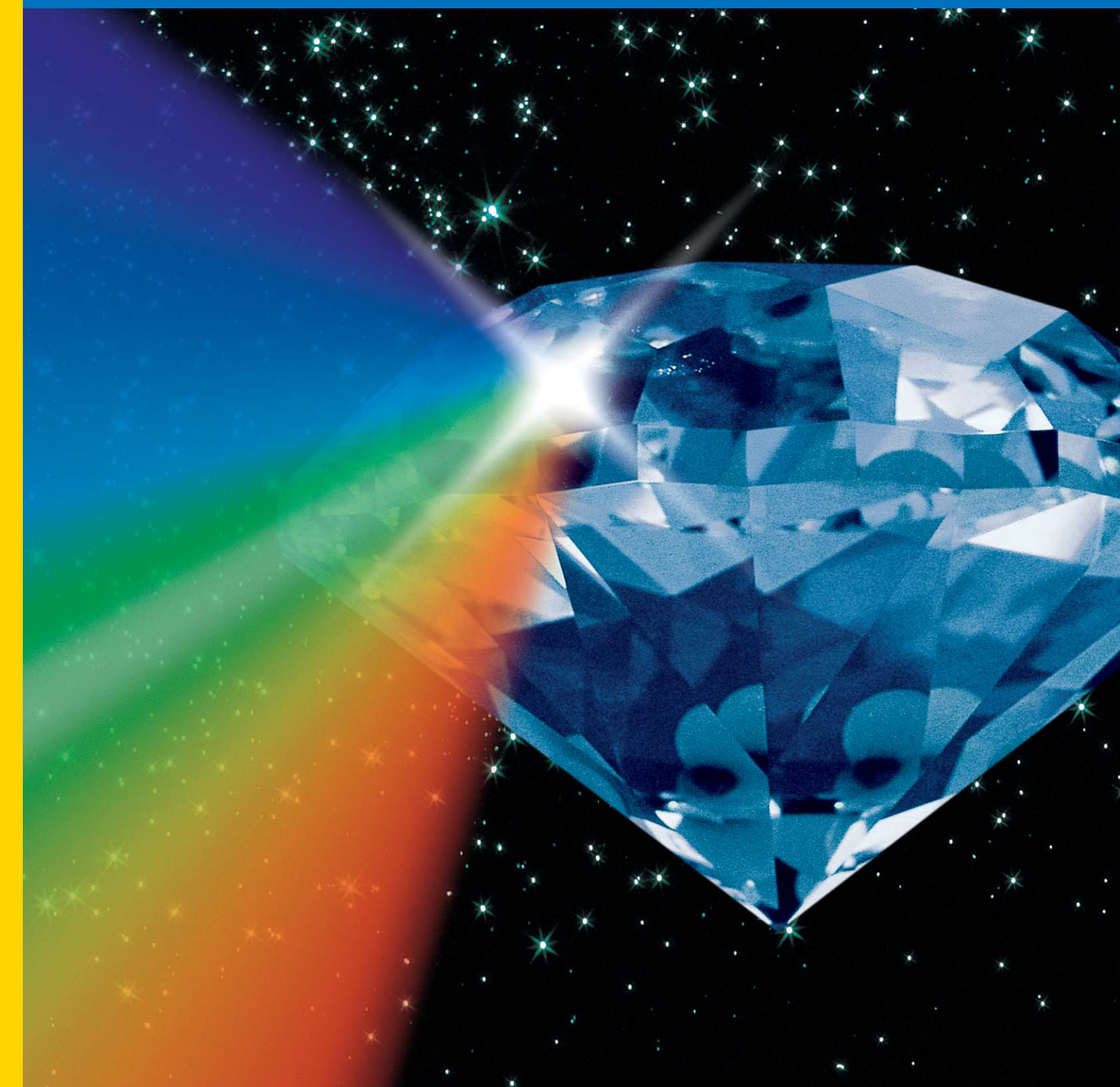
DyStar Textilfarben GmbH & Co. Deutschland KG
Marketing Dyes for Cellulosics
65926 Frankfurt am Main, Germany
Phone: ++49 (0) 69-2109-2399
Fax: ++49 (0) 69-2109-2049
Internet: www.DyStar.com

DyStar
Working for your benefit.

01.1074.00

Levafix® CA

Add value to your business with DyStar's reactive diamonds



Levafix CA – setting new market standards

Today's modern dyehouses are facing a double market challenge:

- Increasing retailer and consumer requirements concerning textile quality and ecology
- Increasing pressure on process costs in a globalised textile chain

DyStar is answering these challenging market demands with the innovative Levafix CA range. All are high-performance dyes applicable by all processes. This range has now been further expanded by three new items fulfilling recent specific market demands.

Levafix Amber CA for non-photochromic dyeings
 Levafix Rubine CA for high light fastness
 Levafix Olive CA for excellent reproducibility in critical olive/khaki shades and exceptional light fastness

The advantages of the complete Levafix CA range at a glance:

Color Confidence Top quality: Meeting your customers highest expectations

- highest fastness level, including multiple washing, chlorine fastness properties and special retailer requirements
- fulfilment of all criteria of established eco standards
- high fixation values and very good wash-off properties
- AOX-free dyes

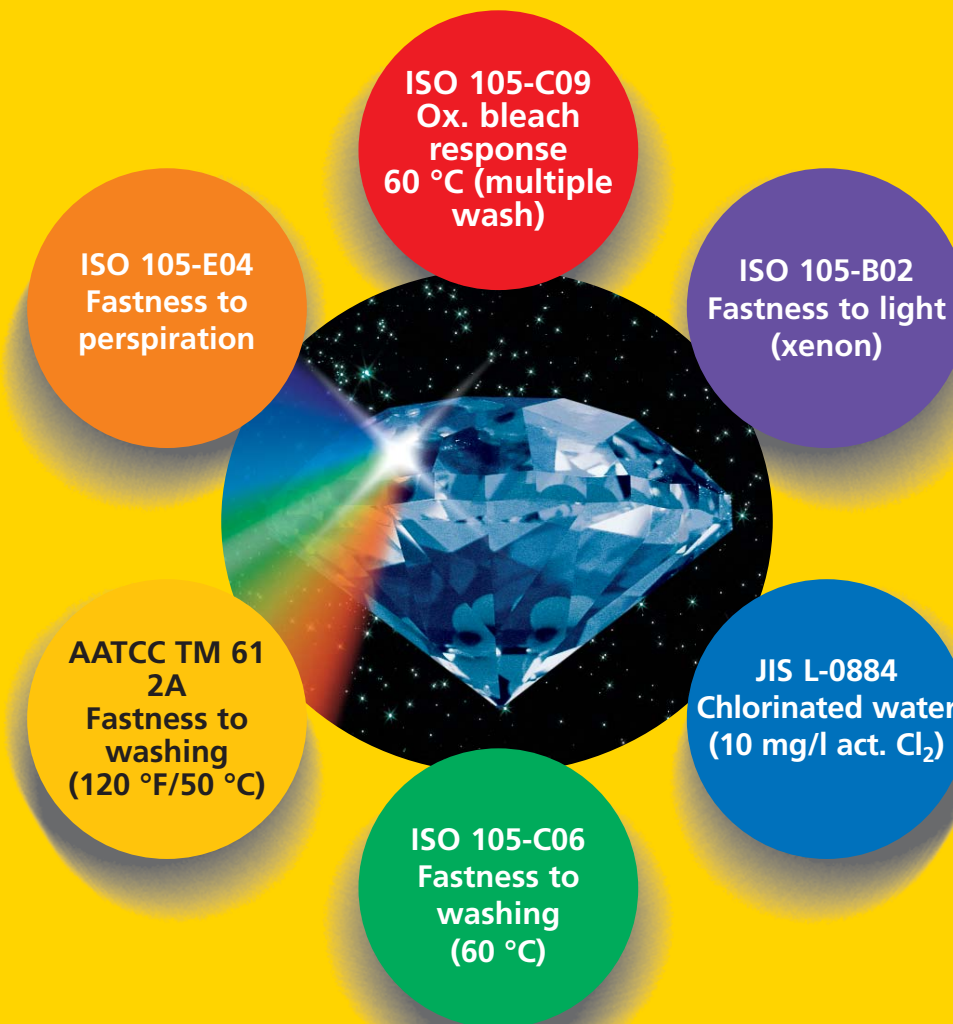
Controlled Coloration Economic right-first-time dyeings: Excellent reproducibility and levelness

- low sensitivity to varying dyeing parameters
- homogenous fixation behaviour
- very good build-up
- flexible use in exhaust, cold pad-batch and continuous processes



Levafix CA for Color Confidence

Levafix CA: Meeting top fastness requirements



Levafix CA: Meeting eco standards



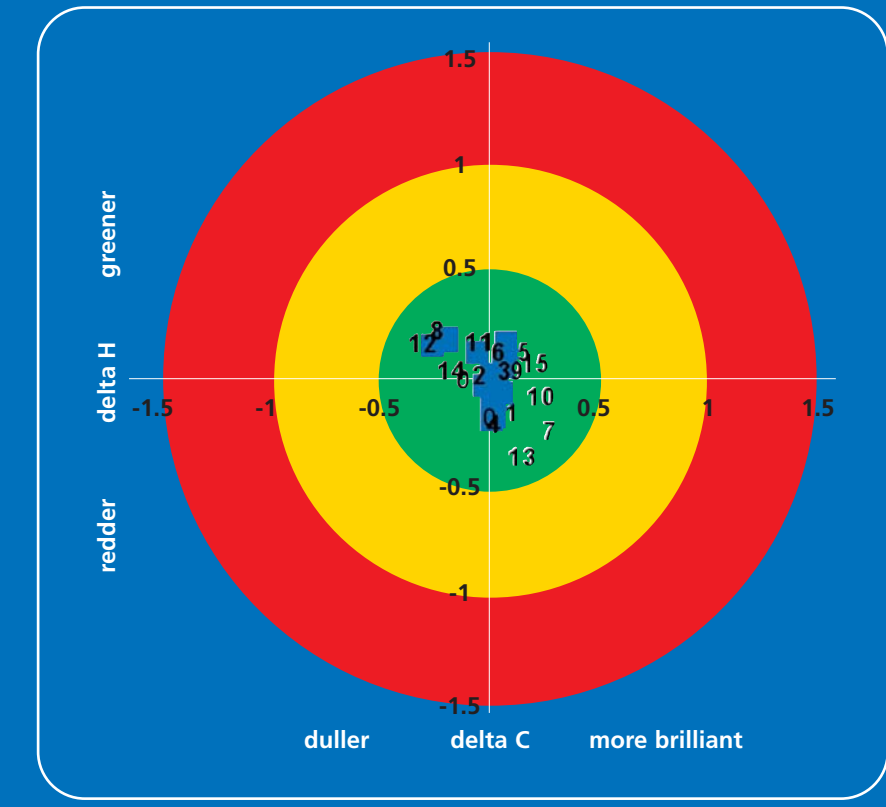
Levafix CA for Controlled Coloration

Levafix CA: Increased productivity from...

- economic right-first-time dyeings
- excellent reproducibility
- less repairs
- less off-quality
- reduced process costs

Example: Exhaust dyeing
 0.12% Levafix Amber CA
 0.18% Levafix Rubine CA
 0.12% Levafix Blue CA

- | | |
|---|------------------------|
| 1: standard dyed according Levafix CA recommendation; | 7: +10% salt; |
| 2: 10% overfill; | 8: -10% alkali; |
| 3: 10% underfill; | 9: +10% alkali; |
| 4: 20% overfill; | 10: -15 min time; |
| 5: 20% underfill; | 11: +15 min time; |
| 6: -10% salt; | 12: -5°C temperature; |
| | 13: +5°C temperature; |
| | 14: -20% liquor ratio; |
| | 15: +20% liquor ratio |



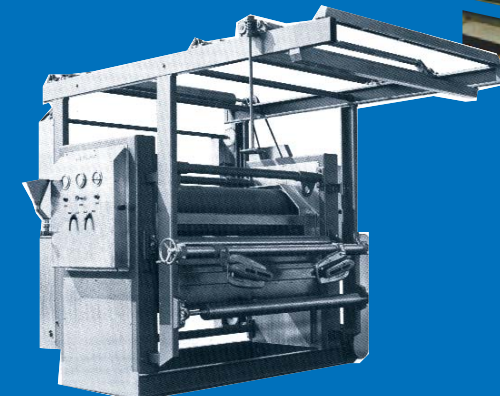
• outside tolerance limits • critical • excellent reproducibility

Levafix CA: Suitability in all processes means no metamerism across different articles and processes

Exhaust dyeing



Cold pad-batch



Continuous dyeing

