

**Textile Effects**

Formulation List for the ZDHC Manufacturing  
Restricted Substance List for H&M (May 2015)



Sustainability  
Innovation  
Collaboration

# Introduction

Huntsman Textile Effects is committed to a textile industry that produces no unnecessary environmental harm and has a positive impact on the people and communities associated with its activities.

In support of the Joint Roadmap Version 2: Towards Zero Discharge of Hazardous Chemicals (October 2014), Huntsman Textile Effects has developed a list of dyes and chemicals which do not intentionally contain any of the substances in the priority chemical groups above the limits listed in the ZDHC MRSL and therefore can be used to supply textiles to Brands that have signed up to the version 2 of the Joint Road Map.

In addition, we do not intentionally introduce the listed substances that would be subsequently found on the textile above the limit values as stated in the AFIRM Group RSL guidance, when the products are applied as recommended.

## The Priority Chemical Groups

PHTHALATES (ortho-phthalates)  
BROMINATED and CHLORINATED FLAME RETARDANTS  
AZO DYES [1]  
ORGANOTIN COMPOUNDS (e.g. TBT)  
CHLOROBENZENES  
CHLORINATED SOLVENTS  
CHLOROPHENOLS  
SHORT-CHAINED CHLORINATED PARAFFINS (SCCPs)  
HEAVY METALS (arsenic, cadmium, lead, mercury, chromium (VI))  
APEOs/ NPEs  
PERFLUORINATED CHEMICALS (PFCs)  
SENSITISING DISPERSE DYES AND CARCINOGENIC DYES  
GLYCOLS  
PAHs – POLYCYCLIC AROMATIC HYDROCARBONS  
VOCs – VOLATILE ORGANIC COMPOUNDS

[1] Forming Restricted Amines

The listed dyes and chemicals are compliant with H&M Restricted Substance List (May 2014).

In our Marketing Alliance with DuPont, Huntsman Textile Effects markets, sells and distributes products which are used for the oil, water and stain repellent finishing of textiles under the tradenames ZONYL®, OLEOPHOBOL® & PHOBOL®.

These sales products contain PFAS chemicals (perfluoroalkyl substances) as active ingredients.

PFOA, PFOS and other perfluoroalkyl sulfonates are not used or added during the manufacture of ZONYL®, OLEOPHOBOL® & PHOBOL® products for textiles manufactured by DuPont and sold by Huntsman.

New Huntsman PHOBOL® CP and PHOBOL® NB products are based on short-chain chemistry that cannot break down to perfluorooctanoic acid (PFOA) in the environment. These products meet the goals of the U.S. EPA 2010/15 PFOA

For additional information, we encourage you to visit the following web sites:

[http://www2.dupont.com/PFOA/en\\_US](http://www2.dupont.com/PFOA/en_US)

<http://www.epa.gov/oppt/pfoa>

A handwritten signature in black ink, appearing to read 'K. Hoffmann', is positioned above the printed name and title.

**K. Hoffmann**

EAME Product EHS Manager

# CHEMICALS



## Pretreatment

CLARITE® 3X	INVATEX® ED
CLARITE® BAC	INVATEX® LAB
CLARITE® CBB	INVATEX® LTA NEW
CLARITE® COM	INVATEX® MD
CLARITE® JBS	INVATEX® PC NEW
CLARITE® LTC	INVATEX® PS
CLARITE® LVE	INVATEX® SA
CLARITE® MAX	INVAZYME® ADC
CLARITE® ONE	INVAZYME® CAT HC
CLARITE® SPE NEW	INVAZYME® CAT LIQ.
CLARITE® WIN	INVAZYME® CEL
CLARITE® WO	INVAZYME® LTE
FUMEXOL® 100	INVAZYME® SOFT
FUMEXOL® DFN	SILVATOL® FLN
FUMEXOL® WDN	ULTRAVON® CN
INVADINE® 650	ULTRAVON® CX
INVADINE® DA	ULTRAVON® EL
INVADINE® LUN	ULTRAVON® GPN EXTRA
INVADINE® MR	ULTRAVON® JUN
INVADINE® O 70 PG	ULTRAVON® JUN HC
INVATEX® AC	ULTRAVON® LP
INVATEX® CRA	ULTRAVON® PL
INVATEX® CS	ULTRAVON® PRE
INVATEX® DMS	ULTRAVON® SIR LIQ.
INVATEX® EAC	ULTRAVON® TC

# CHEMICALS



## Dyeing, leveling agents

ALBATEX® AB-45 NEW	ALBATEX® E3-DDC
ALBATEX® AB-55	ALBATEX® LD
ALBATEX® AD	ALBATEX® OA
ALBATEX® AD-01	ALBATEX® OR
ALBATEX® AD-K	ALBATEX® PON NEW
ALBATEX® CO	ALBATEX® RI
ALBATEX® DBC	ALBATEX® SA-200
ALBATEX® DBS	ALBATEX® VAT
ALBATEX® DS	

## Dyeing, wet fastness improvement

ALBAFIX® E	ALBAFIX® FRD-T
ALBAFIX® ECO	ALBAFIX® R
ALBAFIX® ECO CONC	ALBAFIX® T
ALBAFIX® E3-FXC	ALBAFIX® WS CONC *
ALBAFIX® FRD	ALBAFIX® WFF

\* This product contains traces of formaldehyde. Testing is recommended.

## Dyeing, lubricants

ALBAFLUID® A	ALBAFLUID® CD
ALBAFLUID® C	ALBAFLUID® E3-DLM

## Reduction inhibitors

ALBATEX® AR	LYOPRINT® RG
LYOPRINT® RG GR	

## Dyeing, other agents

INVALON® EC	INVALON® NA
INVALON® FL	

## Dyeing, padding agents

THERMACOL® MP	THERMACOL® MIN
THERMACOL® PT	THERMACOL® MT
THERMACOL® PN	

# CHEMICALS



## Penetration accelerants

ALBAFLOW® CIR	ALBAFLOW® FFW
ALBAFLOW® CONTI	ALBAFLOW® JET
ALBAFLOW® CW	ALBAFLOW® PAD
ALBAFLOW® E3-PAC	ALBAFLOW® SF PLUS
ALBAFLOW® FFA-01	ALBAFLOW® UNI
ALBAFLOW® FFC-01	ALBAFLOW® UNI-01

## PES leveling agents

ALBATEX® AB-45	UNIVADINE® DP CONC
ALBATEX® ALK	UNIVADINE® DPL
ALBATEX® AR	UNIVADINE® E3-DAP
INVALON® DAM LIQ.	UNIVADINE® LD-NF
INVALON® DAM 50% LIQ.	UNIVADINE® LEV
UNIVADINE® DFM	UNIVADINE® NFL
UNIVADINE® DIF	UNIVADINE® OD
UNIVADINE® DIF NEW	UNIVADINE® ODX
UNIVADINE® DLS	UNIVADINE® SD
UNIVADINE® DP	UNIVADINE® TOP

## PA leveling agents

UNIVADINE® MC	UNIVADINE® PA
UNIVADINE® NT	

## PA wet fastness improvement

ERIONAL® CL	ERIONAL® FRN
ERIONAL® EL	ERIONAL® PCL
ERIONAL® ELA	ERIOFAST® FIX-01
ERIONAL® ECS	ERIOFAST® RF

# CHEMICALS



## WO leveling agents

ALBEGAL® A	ALBEGAL® WMC
ALBEGAL® B	MIRALAN® TOP
ALBEGAL® CE	TINEGAL® BDR
ALBEGAL® PLUS	TINEGAL® M
ALBEGAL® SET	TINEGAL® NS
ALBEGAL® W	TINEGAL® W

## WO care agents

MIRALAN® B	MIRALAN® LTD
MIRALAN® HTW *	MIRALAN® Q

\*\* contains/may release formaldehyde during processing, the fabric should be tested to be certain that the appropriate standard is achieved.

## Washing agents

ERIOPON® E3-SOP	ERIOPON® OS
ERIOPON® E3-WOC	ERIOPON® R
ERIOPON® LT	ERIOPON® R LIQ.
ERIOPON® OL	ERIOPON® RC
ERIOPON® OLS	ERIOPON® WFE

## Printing products

LYOPRINT® AIR	LYOPRINT® PTF NEW
LYOPRINT® AP	LYOPRINT® PTP
LYOPRINT® ATP-30	LYOPRINT® PT-RV NEW
LYOPRINT® BS CONC **	LYOPRINT® PT-RV-01
LYOPRINT® DA LIQ.	LYOPRINT® PT-RX
LYOPRINT® DT-CS-01	LYOPRINT® PT-XN
LYOPRINT® LFF	LYOPRINT® RD-HT
LYOPRINT® PBA **	LYOPRINT® RTA
LYOPRINT® PD-ER	LYOPRINT® RT-BC
LYOPRINT® PDN	LYOPRINT® RT-BC-01
LYOPRINT® PFL **	LYOPRINT® TFC-01
LYOPRINT® PSC NEW	

\*\* pigment printing products may release formaldehyde during processing, the printed fabric should be tested to be certain that the appropriate standard is achieved.

# CHEMICALS



## Finishing, softeners

DICRYLAN® WK NEW	SAPAMINE® SPL NEW
MEGASOFT® CEC 01	TURPEX® ACN NEW
MEGASOFT® JET LF 01	TURPEX® ACV NEW
MEGASOFT® SMD	TURPEX® SIL NEW
SAPAMINE® CSN	ULTRATEX® AF Base
SAPAMINE® FPG	ULTRATEX® EMJ
SAPAMINE® IS	ULTRATEX® FH NEW
SAPAMINE® KL NEW	ULTRATEX® FMI
SAPAMINE® MS	ULTRATEX® FMW
SAPAMINE® OC	ULTRATEX® FSA NEW
SAPAMINE® OC Base	ULTRATEX® FSX NEW
SAPAMINE® RA	ULTRATEX® MHT CONC
SAPAMINE® RL *	ULTRATEX® SI
SAPAMINE® SEW	ULTRATEX® SI CONC
SAPAMINE® SFC	ULTRATEX® UM NEW
SAPAMINE® SO NEW	

\* contains/may release formaldehyde during processing, the fabric should be tested to be certain that the appropriate standard is achieved

## Finishing, cross linking agents

KNITTEX® 7636 **	KNITTEX® IS **
KNITTEX® FA CONC **	KNITTEX® MLF NEW **
KNITTEX® FEL **	KNITTEX® RCT **
KNITTEX® FEL AM**	KNITTEX-CATALYST® AP
KNITTEX® FEL NEW**	KNITTEX-CATALYST® F
KNITTEX® FF	KNITTEX-CATALYST® MO / MO LIQ.
KNITTEX® FFRC	KNITTEX-CATALYST® UMP
KNITTEX® FLC CONC **	KNITTEX-CATALYST® ZH
KNITTEX® FPR CONC **	

\*\* contains/may release formaldehyde during processing, the fabric should be tested to be certain that the appropriate standard is achieved



# CHEMICALS



## Finishing, water repellents, FC-free

PHOBOL® EXTENDER XAN

PHOBOTEX® RHP \*\*

PHOBOTEX® APK

PHOBOTEX® RHW \*\*

PHOBOTEX® CATALYST BC

PHOBOTEX® RSH \*\*

PHOBOTEX® HSR

PHOBOTEX® SSR

PHOBOTEX® JVA \*\*

PHOBOTEX® WS CONC.

PHOBOTEX® RCO

PHOBOTEX® ZAN

\*\* contains/may release formaldehyde during processing, the fabric need only be tested if the end use article is for children up to 3 years of age

# CHEMICALS



## Finishing, moisture management agents

ULTRAPHIL® DCW NEW

ULTRAPHIL® PA

ULTRAPHIL® HCT

ULTRAPHIL® TG

ULTRAPHIL® HSD

## Finishing, antislip/antislip agents

FORNAX® K CONC

FORNAX® W 250%

FORNAX® W

## Finishing, antistatic agents

ZEROSTAT® AT NEW

ZEROSTAT® FC NEW

ZEROSTAT® EP

## Finishing, other agents

DICRYLAN® BSRN

INVADINE® PBN

DICRYLAN® PSF

INVADINE® STA

# CHEMICALS



## Finishing, coating dispersion agents and additives

DICRYLAN® 7836 \*

DICRYLAN® PMC

DICRYLAN® AC-01 \*

DICRYLAN® SAW \*

DICRYLAN® AS \*

DICRYLAN® SD

DICRYLAN® AV \*

DICRYLAN® STABILIZER FLN

DICRYLAN® B3 NEW \*

DICRYLAN® TA-GP \*

DICRYLAN® B5 NEW \*

DICRYLAN® TA-TR \*

DICRYLAN® FOAMER HP

DICRYLAN® THICKENER HV30

DICRYLAN® FR-SB \*

DICRYLAN® THICKENER TFC

DICRYLAN® LF

DICRYLAN® V-HKN \*

DICRYLAN® PCF \*

DICRYLAN® V-KN NEW

DICRYLAN® PGS

DICRYLAN® PHR

\* coating products may release formaldehyde during processing; the fabric should be tested to be certain that the appropriate standard is achieved.

## Flame retardants \*\*

FLOVAN® BU

PYROVATEX® CP NEW \*\*\*

FLOVAN® CGA

PYROVATEX® CP-LF \*\*\*

FLOVAN® CGN

PYROVATEX® SVC

FLOVAN® CWF

PYROVATIM® PBS

PYROVATEX® ACS \*\*\*

\*\* Use of flame retardants requires approval from some brands/retailers.

\*\*\* FR products may release formaldehyde during processing; the fabric should be tested to be certain that the appropriate standard is achieved.

## Freshness on demand, anti-microbial

HEIQ® PURE TF

INVASAN® RCD

## Sun protection finishes

UV-SUN® CEL LIQ.

UV-SUN® PES

UV-SUN® WEC LIQ.

UV-SUN® CUT-01

# CHEMICALS



## Optical brighteners

UVITEX® 2B CONC	UVITEX® CF 530%
UVITEX® BAC LIQ	UVITEX® EBB NEW
UVITEX® BAC-B LIQ	UVITEX® EBF 250%
UVITEX® BAC-V LIQ	UVITEX® EBM
UVITEX® BAM 350%	UVITEX® EB-S
UVITEX® BAM LIQ	UVITEX® ECS
UVITEX® BB-S CONC NEW	UVITEX® EDB
UVITEX® BB-S LIQ	UVITEX® EDR
UVITEX® BFA LIQ	UVITEX® EMS
UVITEX® BFW LIQ	UVITEX® EMT
UVITEX® BHA LIQ.	UVITEX® EM-V
UVITEX® BHB LIQ	UVITEX® ER-H
UVITEX® BHT 180%	UVITEX® ERN-P 250%
UVITEX® BHT HC	UVITEX® ER-S
UVITEX® BHT LIQ 115%	UVITEX® EVB
UVITEX® BHT-B 180%	UVITEX® EVB NEW
UVITEX® BHV LIQ	UVITEX® MST LIQ
UVITEX® BMU LIQ	UVITEX® MST-B LIQ
UVITEX® BMU-B LIQ	UVITEX® MSV LIQ
UVITEX® BMU-V LIQ	UVITEX® NFS
UVITEX® BPR LIQ.	UVITEX® NFW 450%
UVITEX® B-VS CONC	UVITEX® NFW LIQ
UVITEX® BV-S LIQ	UVITEX® NFW-S LIQ
UVITEX® CBH NEW	UVITEX® PLF LIQ
UVITEX® CF 200%	UVITEX® RSB LIQ.150%

# CHEMICALS



## UV absorber/ fiber stabilizer

STABILON® AO

UV-FAST® N2

STABILON® CT

UV-FAST® N3

STABILON® NY CONC \*

UV-FAST® P

STABILON® NY/NY-C \*

UV-FAST® PEX

UV-FAST® BPL

UV-FAST® PLF

UV-FAST® HLF NEW

UV-FAST® W LIQ

\* articles treated with these products may 'capture' formaldehyde during processing. Tests advised

## Sizing

COLVINAL® FA-LV

TESCOL® PRS

SYNCOL® F40

VICOL® WAX

SYNCOL® FM

# DYES



## Metal complex dyes/inks

Textiles dyed or printed with metal complex dyes/inks must be tested to confirm that the highest fastness levels have been achieved in order to comply with the extractable metals limits. It is possible that an aftertreatment may be needed, please consult TDS or our technical representatives.

Please refer to Chapter 12 of the SDS for data on the metal content of our products and identification of the metal complex dyes/inks.

Metal complex dyes are restricted (particularly extractable chromium) in some brand/retailer RSLs. Please consult the specific RSL, and discuss with Huntsman representatives.

## Cellulosic dyes, exhaust

AVITERA® BLACK SE	AVITERA® LIGHT BLUE SE
AVITERA® BLUE SE	AVITERA® LIGHT RED SE
AVITERA® BRILLIANT YELLOW SE	AVITERA® NAVY SE
AVITERA® CARDINAL SE	AVITERA® ORANGE SE
AVITERA® DEEP BLUE SE	AVITERA® RED SE
AVITERA® DEEP SEA SE	AVITERA® YELLOW SE

## Cellulosic dyes, exhaust

NOVACRON® BLUE FN-R	NOVACRON® RED FN-R
NOVACRON® BRILLIANT BLUE FN-G	NOVACRON® RED FN-R-01
NOVACRON® BRILLIANT RED FN-3GL	NOVACRON® SCARLET FN-6G
NOVACRON® NAVY FN-BN	NOVACRON® YELLOW F-4G
NOVACRON® ORANGE FN-R	NOVACRON® YELLOW FN-2R
NOVACRON® RED FN-2BL	

## Cellulosic dyes, exhaust

NOVACRON® BLUE TS-3G	NOVACRON® DARK BLUE W-R
NOVACRON® BLUE TS-GC	NOVACRON® NAVY W-B
NOVACRON® RED TS-3B	NOVACRON® ORANGE W-3R
NOVACRON® YELLOW TS-3R	

# DYES



## Cellulosic dyes, exhaust

NOVACRON® DARK BLUE S-GL

NOVACRON® RED S-B

NOVACRON® DEEP CHERRY S-D

NOVACRON® RED S-2G

NOVACRON® DEEP NIGHT S-R

NOVACRON® RUBY S-3B \*

NOVACRON® DEEP ORANGE S-4R

NOVACRON® SUPER BLACK G

NOVACRON® LEMON S-3G

NOVACRON® SUPER BLACK R

NOVACRON® NAVY S-G

NOVACRON® YELLOW S-3R

NOVACRON® OCEAN S-R

\* Tobias acid dyestuff. May lead to false positive detection of 2-naphthylamine.

## Cellulosic dyes, exhaust

NOVACRON® BLACK LS-N-01

NOVACRON® SCARLET LS-2G

NOVACRON® BLUE LS-3R

NOVACRON® YELLOW LS-4G

NOVACRON® BRILLIANT BLUE LS-G

NOVACRON® YELLOW LS-RN

NOVACRON® NAVY LS-G

# DYES



## Cellulosic dyes, continuous/pad batch

NOVACRON® BLACK C-2G LIQ.33%

NOVACRON® NAVY C-R

NOVACRON® BLACK C-2R

NOVACRON® ORANGE BR

NOVACRON® BLACK C-3R LIQ.33%

NOVACRON® ORANGE C-3R

NOVACRON® BLACK C-NN LIQ.33%

NOVACRON® ORANGE C-3R LIQ.33%

NOVACRON® BLACK NN

NOVACRON® ORANGE C-RN

NOVACRON® BLACK NS

NOVACRON® RED C-2BL

NOVACRON® BLUE 4R

NOVACRON® RED C-2G

NOVACRON® BLUE C-D

NOVACRON® RED C-2G LIQ. 33%

NOVACRON® BLUE C-R

NOVACRON® SCARLET C-6G

NOVACRON® BLUE C-R LIQ. 33%

NOVACRON® TURQUOISE GN

NOVACRON® BRILLIANT BLUE C-B

NOVACRON® YELLOW C-2R

NOVACRON® BRILLIANT BLUE EC-B

NOVACRON® YELLOW C-5G

NOVACRON® BRILLIANT TURQUOISE EC-GN

NOVACRON® YELLOW C-NPC

NOVACRON® DEEP RED C-D

NOVACRON® YELLOW C-R

NOVACRON® NAVY C-BN

NOVACRON® YELLOW C-RG

NOVACRON® NAVY C-BN LIQ.25%

NOVACRON® YELLOW NP

## Cellulosic dyes, continuous/pad batch, non-contrast

NOVACRON® BROWN NC

NOVACRON® OLIVE NC

NOVACRON® GREY NC

NOVACRON® YELLOW NC



# DYES



## Cellulosic dyes, exhaust

SOLOPHENYL® BLACK FGE 600%	SOLOPHENYL® ORANGE TGL 182%
SOLOPHENYL® BLACK FR	SOLOPHENYL® RED 3BL 140%
SOLOPHENYL® BLUE FGLE 220%	SOLOPHENYL® RED 4GE
SOLOPHENYL® BLUE GL 250%	SOLOPHENYL® RED 7BE
SOLOPHENYL® BLUE TLE	SOLOPHENYL® ROYAL BLUE RFE
SOLOPHENYL® BORDEAUX 3BLE	SOLOPHENYL® SCARLET BNLE 200%
SOLOPHENYL® BROWN AGL	SOLOPHENYL® TURQUOISE BRLE 400%
SOLOPHENYL® BROWN RL 130%	SOLOPHENYL® VIOLET 4BLE 250%
SOLOPHENYL® GREY 4GLE 300%	SOLOPHENYL® YELLOW ARLE 154%
SOLOPHENYL® NAVY BLE 250%	SOLOPHENYL® YELLOW GLE
SOLOPHENYL® ORANGE ARLE 220%	

## Cellulosic dyes, exhaust

NOVASOL® BLACK B MD XE	NOVASOL® GREY P2R MD / MD UE
NOVASOL® BLACK R MD XE	NOVASOL® NAVY DB MD XE / MD UE
NOVASOL® BLACK RC MD	NOVASOL® OLIVE 2R MD UE
NOVASOL® BLACK TS MD	NOVASOL® OLIVE B MD / MD UE
NOVASOL® BLUE CL MD / MD XE	NOVASOL® OLIVE S MD / OLIVE S-01 MD
NOVASOL® BLUE GF MD / MD XE	NOVASOL® ORANGE 3R MD / MD UE
NOVASOL® BLUE RS MD	NOVASOL® RED 2B MD / MD UE / MD UU
NOVASOL® BROWN BR MD	NOVASOL® RED 6B MD / MD UE
NOVASOL® BROWN GBL MD	NOVASOL® VIOLET BNA MD UE
NOVASOL® BROWN R MD	NOVASOL® YELLOW 2G MD
NOVASOL® GOLDEN YELLOW RK MD / MD UE	NOVASOL® YELLOW 3R MD / MD UE
NOVASOL® GREEN BF MD / MD UE	NOVASOL® YELLOW 5G MD UU

# DYES



## Cellulosic dyes, printing

NOVACRON® BLACK P-GR 150%	NOVACRON® NAVY P-2R LIQ. 33%
NOVACRON® BLACK P-GR LIQ. 40%	NOVACRON® ORANGE P-2R GR
NOVACRON® BLACK P-SG *	NOVACRON® ORANGE P-2R LIQ. 40%
NOVACRON® BLACK P-SG LIQ. 40% *	NOVACRON® ORANGE P-4R GR
NOVACRON® BLACK P-SGN *	NOVACRON® ORANGE P-4R LIQ. 40%
NOVACRON® BLACK P-SGN LIQ.40% *	NOVACRON® RED P-2B
NOVACRON® BLUE P-3R GR	NOVACRON® RED P-4B GR
NOVACRON® BLUE P-3R LIQ. 40%	NOVACRON® RED P-4B LIQ. 33%
NOVACRON® BRILLIANT BLUE PS-2R	NOVACRON® RED P-6B LIQ. 33% **
NOVACRON® BROWN P-6R GR150%	NOVACRON® RED P-BN GR
NOVACRON® BROWN P-6R LIQ. 50%	NOVACRON® RED P-BN LIQ. 33%
NOVACRON® GOLDEN YELLOW P-2RN GR	NOVACRON® TURQUOISE P-GR 150%
NOVACRON® G YELLOW P-2RN LIQ. 33%	NOVACRON® TURQUOISE P-GR LIQ. 50%
NOVACRON® GREY P-ASN*	NOVACRON® YELLOW P-6GS GRAN
NOVACRON® GREY P-ASN LIQ.25%*	NOVACRON® YELLOW P-6GS LIQ. 33%
NOVACRON® NAVY P-2R	

\* Contains Cr, only use in light shade concentrations. Contact your sales representative for details

\*\* Tobias acid dyestuff. May lead to false positive detection of 2-naphthylamine.

# DYES



## Polyester dyes

TERASIL® BLACK BFE	TERASIL® BROWN 2RFL 200%
TERASIL® BLACK BFR	TERASIL® NAVY GRL-C 200%
TERASIL® BLACK BFR 133%	TERASIL® NAVY NFR
TERASIL® BLACK SRL-01 200%	TERASIL® ORANGE 2GS
TERASIL® BLACK SRLN 200%	TERASIL® RED 3BL-01 150%
TERASIL® BLUE 3R-04	TERASIL® RED FBN CONC.
TERASIL® BLUE 3RL-02 150%	TERASIL® RED G 150%
TERASIL® BLUE BG-02 200%	TERASIL® RED LF
TERASIL® BLUE BGE-01 200%	TERASIL® RUBINE 2GFL
TERASIL® BLUE GNN 300%	TERASIL® VIOLET BL-01 150%
TERASIL® BLUE GNN-01 200%	TERASIL® YELLOW 4G
TERASIL® BLUE LF	TERASIL® YELLOW LF
TERASIL® BLUE RBS	

## Polyester dyes, liquid, printing

TERASIL® BLACK P-R LIQ. 40%	TERASIL® PINK P-2B LIQ. 40%
TERASIL® BLACK SRLN LIQ. 75%	TERASIL® RED P-2G LIQ.
TERASIL® BLUE P-BGE LIQ.	TERASIL® VIOLET PX-BL LIQ. 67%
TERASIL® GREY PX-SG LIQ. 75%	TERASIL® YELLOW P6GS LIQ. 50%
TERASIL® ORANGE GLN LIQ.50%	

## Polyester dyes

TERASIL® FLAVINE 8GFF	TERASIL® RED 3BFF
TERASIL® FLAVINE 10GFF	TERASIL® RED GFF

## Polyester dyes

TERASIL® BLACK TC	TERASIL® NAVY TC
TERASIL® BLUE TC	TERASIL® RUBINE TC
TERASIL® BRILLIANT RED TC	TERASIL® TURQUOISE TC
TERASIL® DARK BLUE TC	TERASIL® YELLOW TC

# DYES



## Polyester dyes

TERASIL® BLACK W-NS	TERASIL® NAVY W-RS
TERASIL® BLACK W-NSE	TERASIL® RED W-4BS-01 150%
TERASIL® BLACK W-PES	TERASIL® RED W-EL
TERASIL® BLACK W-PLUS	TERASIL® RED W-RS
TERASIL® BLACK W-EL	TERASIL® ROYAL BLUE W-EL
TERASIL® BLUE W-EL	TERASIL® TURQUOISE W-XN
TERASIL® BLUE W-BLS	TERASIL® YELLOW W-6GS
TERASIL® BLUE W-2RS	TERASIL® YELLOW W-EL
TERASIL® GOLDEN YELLOW W-3R	

## Polyester dyes

TERASIL® BLACK WW-KSN	TERASIL® RED WW-BFS 200%
TERASIL® BLUE WW-2GS	TERASIL® RED WW-CBS
TERASIL® FIRE RED WW-GS	TERASIL® RED WW-FS
TERASIL® NAVY WW-GSN	TERASIL® RED WW-DS
TERASIL® RED WW-3BS	TERASIL® VIOLET WW-2RS
TERASIL® RED WW-BFS-01 200%	

## Polyester dyes

TERASIL® BLUE C-3R	TERASIL® RED SD-01
TERASIL® BLUE SD	TERASIL® YELLOW CR
TERASIL® DARK BLUE SD	TERASIL® YELLOW SD
TERASIL® RED CB	

# DYES



## Polyester dyes

TERATOP® BLACK HL-NF	TERATOP® PINK 2GLA
TERATOP® BLACK HL-SF	TERATOP® PINK 3G
TERATOP® BLUE BGE	TERATOP® RED HLA-G
TERATOP® BLUE BLF	TERATOP® RED HL-GS
TERATOP® BLUE BLF 150%	TERATOP® RED HL-R-01
TERATOP® BLUE GLF	TERATOP® RED HL-S
TERATOP® BLUE GLF 200%	TERATOP® RED NFR
TERATOP® BLUE HLA-2G	TERATOP® SCARLET HL
TERATOP® BLUE HLA-2G-01	TERATOP® VIOLET BL 150%
TERATOP® BLUE HL-GR 01	TERATOP® YELLOW HLA-3R
TERATOP® BLUE NFB	TERATOP® YELLOW HL-G 01 150%
TERATOP® GREY HL	TERATOP® YELLOW HL-RS 200%
TERATOP® NAVY HL-N	TERATOP® YELLOW NFG
TERATOP® ORANGE HL	

# DYES



## Polyacrylnitrile dyes

MAXILON® BLACK FBL-01 300%

MAXILON® BLACK FBL LIQ.

MAXILON® BLACK RM-01 200%

MAXILON® BLUE 5G EC 300%

MAXILON® BLUE 5G-01 LIQ.

MAXILON® BLUE GRL 300%

MAXILON® BLUE GRL LIQ.200%

MAXILON® BLUE SL 200%

MAXILON® BLUE TL

MAXILON® BLUE TRL LIQ.

MAXILON® FLAVINE 10GFF 300%

MAXILON® GOLDEN YELLOW GL EC 400%

MAXILON® GOLDEN YELLOW GL LIQ. 200%

MAXILON® NAVY 2RM 200%

MAXILON® ORANGE RN 400%

MAXILON® RED 3GL-N

MAXILON® RED GL LIQ.

MAXILON® RED GRL 200%

MAXILON® RED GRL LIQ.

MAXILON® RED SL 200%

MAXILON® YELLOW GL 200%

MAXILON® RED 2B-01 LIQ.

MAXILON® YELLOW 4GL 200%

MAXILON® YELLOW 4GL LIQ.

MAXILON® YELLOW GRL LIQ.

# DYES



## Wool/polyamide dyes

LANASET® BLACK B	LANASET® ORANGE RN
LANASET® BLUE 2R	LANASET® RED 2B
LANASET® BLUE 2RA	LANASET® RED 2GA-01
LANASET® BLUE 5G	LANASET® RED G
LANASET® BORDEAUX B	LANASET® VIOLET B
LANASET® BROWN G-01	LANASET® YELLOW 2R
LANASET® GREEN B	LANASET® YELLOW 4GN
LANASET® GREY G	LANASET® YELLOW CWN
LANASET® NAVY R	

## Wool/polyamide dyes

LANASET® BLACK PA-R	LANASET® RED PA-3G
LANASET® BLUE PA	LANASET® RED PA-4B
LANASET® BLUE PA-2R	LANASET® YELLOW PA 125%
LANASET® NAVY PA	LANASET® YELLOW PA-2G
LANASET® ORANGE PA-2R	LANASET® YELLOW PA-4G

## Wool/polyamide dyes

LANASET® BLACK CDP	LANASET® GOLDEN YELLOW CDP
LANASET® BLUE CDP	LANASET® YELLOW CDP

## Wool/polyamide dyes

NEOLAN® BLACK P OPTIFLOW	NEOLAN® NAVY P OPTIFLOW
NEOLAN® BLUE P OPTIFLOW	NEOLAN® NAVY PA OPTIFLOW
NEOLAN® BLUE PA OPTIFLOW	NEOLAN® RED P OPTIFLOW
NEOLAN® BORDEAUX P OPTIFLOW	NEOLAN® YELLOW P OPTIFLOW

# DYES



## Wool/polyamide dyes

ERIONYL® BLACK AMR-01	ERIONYL® GOLDEN YELLOW M-R-02
ERIONYL® BLACK AMR	ERIONYL® NAVY A-R
ERIONYL® BLACK A-MR LIQ.	ERIONYL® RED 2B 154%
ERIONYL® BLACK AMRC	ERIONYL® RED A-2BF
ERIONYL® BLACK M-BN	ERIONYL® RED A-3BN / A-3BN-01
ERIONYL® BLACK M-BN LIQ. 22%	ERIONYL® RED A-3G
ERIONYL® BLACK M-RN-01 LIQ.	ERIONYL® TURQUOISE A-G
ERIONYL® BLUE A-4G	ERIONYL® YELLOW A-3G-02
ERIONYL® BLUE A-R	ERIONYL® YELLOW A-R
ERIONYL® BORDEAUX A-5B 200%	

## Wool/polyamide dyes

ERIONYL® ORANGE B-GRLS	ERIONYL® YELLOW B-4G
ERIONYL® ORANGE B-GSN	ERIONYL® RED B-RLS-02
ERIONYL® RED B-10B-01	ERIONYL® RED B-RLS-03
ERIONYL® RED B-B	



# DYES



## Wool/polyamide dyes

LANACRON® BLACK N-BGL

LANACRON® GREY N-GLN

LANACRON® BLACK N-RBLN

LANACRON® RED N-2GL KWL

LANACRON® BLUE N-3GL

LANACRON® YELLOW N-2GL KWL

LANACRON® BORDEAUX N-EL

LANACRON® YELLOW N-3RL KWL

LANACRON® GREY N-BL KWL

LANACRON® YELLOW N-GRL

## Wool/polyamide dyes

LANACRON® BLACK S-BN LIQ.

LANACRON® GREY S-B-02

LANACRON® BORDEAUX S-B-02

LANACRON® NAVY S-G-01 KWL

LANACRON® BROWN S-GR-02

LANACRON® NAVY S-G-02 KWL

LANACRON® GREY S-2B

LANACRON® YELLOW S-2G-01 KWL

LANACRON® GREY S-B-01

LANACRON® YELLOW S-2G-02 KWL

## Wool/polyamide dyes

TECTILON® BLUE 4R-01 200%

TECTILON® RED F-2G

TECTILON® BLUE F-3R

TECTILON® YELLOW 2G 200%

TECTILON® BLUE G-02 200%

TECTILON® YELLOW 3R 200%

TECTILON® BLUE GC-G

TECTILON® YELLOW F-5R

TECTILON® RED 2B 200%

# DYES



## Wool dyes

LANASOL® BLACK CE-PV

LANASOL® NAVY CE-R

LANASOL® BLACK CE

LANASOL® NAVY CE

LANASOL® BLACK R

LANASOL® ORANGE RG

LANASOL® BLUE 3G

LANASOL® RED 2G

LANASOL® BLUE 3R

LANASOL® RED 5B

LANASOL® BLUE 8G-01 150%

LANASOL® RED 6G

LANASOL® BLUE CE

LANASOL® RED B

LANASOL® BROWN CE

LANASOL® RED CE

LANASOL® DEEP BLACK CE-2B

LANASOL® RED GN

LANASOL® DEEP BLACK CE-R

LANASOL® SCARLET 3G

LANASOL® GOLDEN YELLOW CE-01

LANASOL® YELLOW 4G

LANASOL® NAVY B-01

LANASOL® YELLOW CE

## Polyamide dyes \*

ERIOFAST® BLACK M

ERIOFAST® RED 2B

ERIOFAST® BLUE 3G

ERIOFAST® RED B

ERIOFAST® BLUE 3R

ERIOFAST® YELLOW 5G

ERIOFAST® ORANGE 4R

ERIOFAST® YELLOW R

# DIGITAL PRINTING



## Reactive inks

NOVACRON® BLUE XKS 601

NOVACRON® ORANGE XKS 301

NOVACRON® DEEP BLACK XKS-2001

NOVACRON® ORANGE XKS-350

NOVACRON® GOLDEN YELLOW XKS-203

NOVACRON® RED XKS-402

NOVACRON® GREY XKS-800

NOVACRON® RED XKS-403

NOVACRON® GREY XKS-801

NOVACRON® TURQUOISE XKS-701

NOVACRON® JET BLACK XKS 2500

NOVACRON® YELLOW XKS-102

NOVACRON® MAGENTA XKS 501

## Reactive inks

NOVACRON® BLUE XKS HD 6000

NOVACRON® RED XKS HD 4500

NOVACRON® GREY XKS HD 8000

NOVACRON® TURQUOISE XKS HD 7000

NOVACRON® MAGENTA XKS HD 5000

NOVACRON® YELLOW XKS HD 1000

NOVACRON® ORANGE XKS HD 3000

## Reactive inks

NOVACRON® BLUE MI-600

NOVACRON® RED MI-400

NOVACRON® DEEP BLACK MI-2000

NOVACRON® RED MI-500

NOVACRON® GOLDEN YELLOW MI-200

NOVACRON® TURQUOISE MI-700

NOVACRON® GREY MI-800

NOVACRON® YELLOW MI-100

NOVACRON® ORANGE MI-300

## Reactive inks

NOVACRON® BLUE HV-600

NOVACRON® LIGHT TURQUOISE HV-750

NOVACRON® DEEP BLACK HV-2000

NOVACRON® MAGENTA HV-500

NOVACRON® GREY HV-800

NOVACRON® TURQUOISE HV-700

NOVACRON® LIGHT MAGENTA HV-550

NOVACRON® YELLOW HV-100

## Reactive inks

NOVACRON® BLUE RAC-600

NOVACRON® STRONG BLACK RAC-950

NOVACRON® GREY RAC 800

NOVACRON® TURQUOISE RAC-700

NOVACRON® ORANGE RAC-300

NOVACRON® YELLOW RAC-100

NOVACRON® RED RAC-500

# DIGITAL PRINTING



## Reactive inks

ERIOFAST® BLACK XKS 1001	ERIOFAST® ORANGE XKS-300
ERIOFAST® BLUE XKS 600	ERIOFAST® ORANGE XKS-350
ERIOFAST® CYAN XKS 700	ERIOFAST® RED XKS 400
ERIOFAST® DEEP BLACK XKS 2000	ERIOFAST® RED XKS 403
ERIOFAST® GOLDEN YELLOW XKS 203	ERIOFAST® SUPER BLACK XKS 3000
ERIOFAST® GOLDEN YELLOW XKS-200	ERIOFAST® YELLOW XKS 100
ERIOFAST® GREY XKS 800	ERIOFAST® YELLOW XKS 102
ERIOFAST® MAGENTA XKS 500	

## Reactive inks

ERIOFAST® BLUE RHK-600	ERIOFAST® ORANGE RHK-300
ERIOFAST® DEEP BLACK RHK-2000	ERIOFAST® ORANGE RHK-350
ERIOFAST® JET BLACK RHK-2500	ERIOFAST® PURE BLACK RHK-3000
ERIOFAST® JET BLACK RHK-2501	ERIOFAST® TURQUOISE RHK-700
ERIOFAST® MAGENTA RHK-500	ERIOFAST® YELLOW RHK-100

## Acid/metal complex inks

LANASET® BLACK RS 700	LANASET® MAGENTA RS 300
LANASET® BLUE RS 400	LANASET® ORANGE RS 150
LANASET® CYAN RS 500	LANASET® RED RS 200
LANASET® LIGHT BLACK RS 600	LANASET® YELLOW RS 100

## Acid/metal complex inks

LANASET® BLACK SI HS-5700	LANASET® RED SI HS-5200
LANASET® BLUE SI HS 5450	LANASET® RED SI HS-5240
LANASET® CYAN SI-HS 5560	LANASET® RED SI HS-5300
LANASET® GREY SI HS-5600	LANASET® TURQUOISE SI HS-5500
LANASET® ORANGE SI HS-5150	LANASET® YELLOW SI HS-5100

## Acid/metal complex inks

LANASET® BLACK RAC 700	LANASET® RED RAC 250
LANASET® BLUE RAC 450	LANASET® RED RAC 300
LANASET® GREY RAC 600	LANASET® TURQUOISE RAC 500
LANASET® LIGHT RED RAC-350	LANASET® YELLOW RAC 100
LANASET® ORANGE RAC 150	

# DIGITAL PRINTING



## Acid/metal complex inks

LANASET® BLACK XKS-700

LANASET® RED XKS-200

LANASET® BLUE XKS-450

LANASET® RED XKS-300

LANASET® FLAVINE XKS-110

LANASET® RHODAMINE XKS-370

LANASET® GREY XKS-600

LANASET® TURQUOISE XKS-500

LANASET® MAGENTA XKS 360

LANASET® YELLOW XKS-100

LANASET® ORANGE XKS-150

## Disperse inks

TERASIL® BLACK DI HL-5800

TERASIL® PINK DI HL-5300

TERASIL® BLUE DI HL-5500

TERASIL® RED DI HL-5200

TERASIL® BRIGHT YELLOW DI-5110

TERASIL® RED DI HL-5202

TERASIL® GOLDEN YELLOW DI-5120

TERASIL® VIOLET DI HL-5400

TERASIL® GREY DI HL-5700

TERASIL® YELLOW DI HL-5100

TERASIL® JET BLACK DI-W 1000

## Disperse inks

TERASIL® BRIGHT YELLOW XKS 100

TERASIL® RED XKS 202

TERASIL® CYAN XKS 400

TERASIL® RED XKS 250

TERASIL® DARK BLUE XKS 900

TERASIL® SUBLI BLACK XKS 2000

TERASIL® FASHION BLACK XKS 1500

TERASIL® SUBLI CYAN XKS 400

TERASIL® GOLDEN YELLOW XKS 150

TERASIL® SUBLI MAGENTA XKS 300

TERASIL® GREY XKS 700

TERASIL® SUBLI YELLOW XKS 100

TERASIL® JET BLACK XKS 1000

TERASIL® VIOLET BLUE XKS 600

TERASIL® MAGENTA XKS 300

## Disperse inks

TERASIL® BLUE XKS HL 450

TERASIL® SCARLET XKS HL 190

TERASIL® JET BLACK XKS HL 2000

TERASIL® YELLOW XKS HL 110

TERASIL® RED XKS HL 201

## Disperse inks

TERASIL® BLUE TS-4400

TERASIL® SUPER BLACK TS-4801

TERASIL® CYAN TS-4501

TERASIL® YELLOW TS-4100

TERASIL® MAGENTA TS-4301

## Disperse inks

TERASIL BRITE® MAGENTA 300

# DIGITAL PRINTING



## Disperse inks

TERASIL® BRIGHT YELLOW HV 100

TERASIL® JET BLACK HV 1000

TERASIL® CYAN HV 400

TERASIL® LIGHT MAGENTA HV 350

TERASIL® GOLDEN YELLOW HV 150

TERASIL® MAGENTA HV 300

TERASIL® GREY HV 700

TERASIL® VIOLET HV 600

## Disperse inks

TERASIL® BLUE STI 400-ECO

TERASIL® YELLOW STI 100- ECO

TERASIL® ORANGE STI 200-ECO

## Pigment inks

LYOSPERSE® BLACK GP-900

LYOSPERSE® RED GP-300

LYOSPERSE® CYAN GP-500

LYOSPERSE® ROYAL BLUE GP-700

LYOSPERSE® MAGENTA GP-400

LYOSPERSE® YELLOW GP-100

LYOSPERSE® ORANGE GP-200

## Pigment inks

LYOSPERSE® BLACK XKS-900

LYOSPERSE® MAGENTA XKS-400

LYOSPERSE® CYAN XKS-500

LYOSPERSE® YELLOW XKS-100

## Inkjet auxiliaries

CLEANJET® CS

INK DILUENT® AR-HV

CLEANJET® K

PREPAJET® LYO

CLEANJET® PLUS

PREPAJET® NFP

CLEANJET® SAVE

PREPAJET® PA SPECIAL

CLEANJET® XKS

PREPAJET® PIJ

INK DILUENT® AR

PREPAJET® UNI

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