



CHT

SMART CHEMISTRY
WITH CHARACTER.

BEZAPRINT

PIGMENTS FOR PRINTING

BEZAPRINT

A

ADVANCED

Improved and adapted ranges for versatile and economical use which meet high requirements.

Color-Prints with 30 and 7.5 g/kg
White Print with 80 g/kg



					BEZAPRINT		BEZAPRINT		BEZAPRINT		BEZAPRINT		BEZAPRINT		BEZAPRINT		BEZAPRINT			
					White 001		Yellow HL		Yellow 3GT		Yellow 2GN		Yellow GOT		Yellow RR		Golden Yellow M		Orange EF	
					CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES
Fastness to Light	CC	1 g/kg 7.5 g/kg 30 g/kg			7	6-7	5-6	2	6	5-6	6	3-4								
					7	7	7	4	6-7	6-7	5									
					7-8	7-8	8	7	7-8	8	7-8									
Fastness to weathering	CC	1 g/kg 7.5 g/kg 30 g/kg			7	5	5	n.s.	6-7	5	1	n.s.								
					7	6	6-7	n.s.	7	6-7	2-3	n.s.								
					7	7	7	n.s.	7	7	5	n.s.								
Fastness to hypochlorite bleaching	CC	1 g/kg 30 g/kg			5	5	4-5	5	4-5	4-5	3	3-4								
					5	4-5	5	5	5	3	4-5									
Fastness to chlorinated water (swimming pool water)	100 mg/l Chlorine	CC	1 g/kg 30 g/kg		5	5	5	5	4-5	5	4-5	4-5								
					5	5	5	5	5	4-5	5									
Fastness to dry cleaning	Perchloroethylene	CC SO	1 g/kg		5	5	4	2-3	4-5	5	5	2-3								
					5	5	4-5	5	4-5	5	5	4								
					CC SO	30 g/kg	5	5	4-5	5	5	5	4-5	3						
							5	5	3-4	4-5	5	5	4-5	2-3						
Suitability for PVC coating	PVC	30 g/kg			5	5	4	3	4-5	4-5	4-5	3								
Change of shade on fixation	4 min, 150 °C	CC	1 g/kg 30 g/kg		5	5	5	4	4-5	5	5	5	3							
					5	5	5	5	5	5	5	5	4-5							
Heat stability	2 min, 175 °C	CC	1 g/kg 30 g/kg		5	5	4-5	4	4	4-5	4-5	5	5	5	5	1	5			
	1 min, 200 °C	CC	1 g/kg 30 g/kg		5	5	4	3	3	4	4-5	4-5	5	5	5	5	5	2-3		
Resistance to discharge in printing paste	Tubiscreen DC Agent				+	+	+	+	(+)	+	-	-								
Selection for screen printing					●	●	●			●	●									
GOTS					●	●	●	●	●		●	●								
bluesign®																				

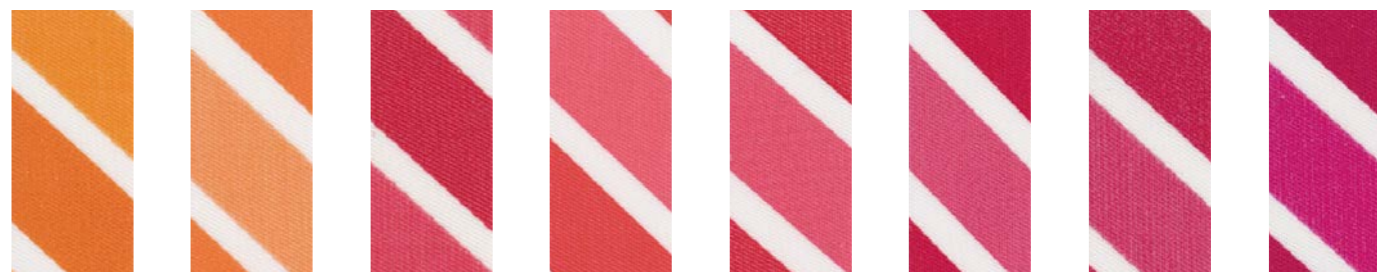
- n.s. not suitable
- C more clear
- B more bluish
- G more greenish
- R more reddish
- Y more yellowish
- + resistant to discharge
- (+) limited resistant to discharge (only for short time)
- not resistant to discharge
- CC colour change
- PVC staining of the PVC-foil
- SO staining of the solvent

BEZAPRINT

A

ADVANCED

Improved and adapted ranges for versatile and economical use which meet high requirements.



Color-Prints with 30 and 7.5 g/kg
White Print with 80 g/kg

				BEZAPRINT Orange RG		BEZAPRINT Orange GT		BEZAPRINT Red SGR		BEZAPRINT Red HBB		BEZAPRINT Scarlet RR		BEZAPRINT Red KGC		BEZAPRINT Red GOT		BEZAPRINT Red KF	
				CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES
Fastness to Light		CC	1 g/kg 7.5 g/kg 30 g/kg	2 4 7		7 7-8 7-8		1 1-2 4		3 3-4 5-6		7 7-8 7-8		4 6-7 7-8		5 5-6 7-8		3-4 5 6-7	
Fastness to weathering		CC	1 g/kg 7.5 g/kg 30 g/kg	n.s. n.s. 6-7		7 7 7		n.s. n.s. n.s.		n.s. n.s. n.s.		7 7 7		n.s. n.s. 6-7		n.s. n.s. 6		n.s. n.s. 7	
Fastness to hypochlorite bleaching		CC	1 g/kg 30 g/kg	4-5 5		4-5 4-5		4-5 4-5		4-5 4-5		5 4-5		4-5 5		4-5 5		5 5	
Fastness to chlorinated water (swimming pool water)	100 mg/l Chlorine	CC	1 g/kg 30 g/kg	5 5		5 5		5 5		5 4-5		5 5		5 5		4-5 5		5 5	
Fastness to dry cleaning	Perchlorethylene	CC	1 g/kg	3 4		4-5 5		4 5		4 4-5		4-5 5		5 5		4-5 4-5		4-5 5	
		CC SO	30 g/kg	5 2		4-5 5		4 4-5		4 4-5		4-5 5		5 5		5 5		4-5 5	
Suitability for PVC coating		PVC	30 g/kg	3-4		4-5		3-4		3-4		4-5		4-5		4-5		3-4	
Change of shade on fixation	4 min, 150 °C	CC	1 g/kg 30 g/kg	4-5 5		5 5		3-4 4		3-4 4		4-5 5		4-5 5		4-5 5		4-5 5	
Heat stability	2 min, 175 °C	CC	1 g/kg 30 g/kg	5 5	3-4 5	4-5 5	2 4-5	3-4 4	3-4 4-5	4 4	2-3 4-5	4-5 5	4-5 5	3-4 5	2 5	3 5	2 5	4-5 5	3-4 4-5
	1 min, 200 °C	CC	1 g/kg 30 g/kg	4-5 5	2-3 4-5	3-4 5	1 3-4	3-4 4	2 4	3 4	2 3-4	4 5	4 4-5	2 5	1-2 4-5	1-2 5	1 4	4 5	2 4-5
Resistance to discharge in printing paste	Tubiscreen DC Agent			+		-		-		-		+		(+)		(+)		(+)	
Selection for screen printing				●				●		●		●		●				●	
GOTS						●		●		●		●		●		●			
bluesign®				bluesign APPROVED		bluesign APPROVED		bluesign APPROVED		bluesign APPROVED		bluesign APPROVED		bluesign APPROVED		bluesign APPROVED		bluesign APPROVED	

- n.s. not suitable
- C more clear
- B more bluish
- G more greenish
- R more reddish
- Y more yellowish
- + resistant to discharge
- (+) limited resistant to discharge (only for short time)
- not resistant to discharge
- CC colour change
- PVC staining of the PVC-foil
- SO staining of the solvent

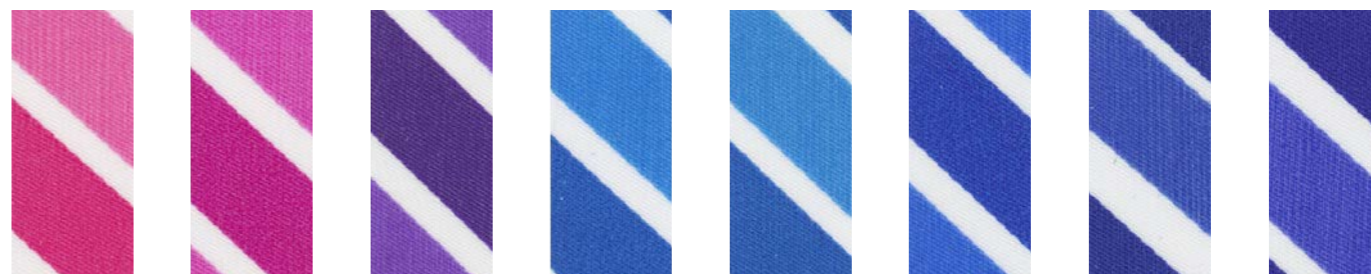
BEZAPRINT

A

ADVANCED

Improved and adapted ranges for versatile and economical use which meet high requirements.

Color-Prints with 30 and 7.5 g/kg
White Print with 80 g/kg



				BEZAPRINT Pink BW		BEZAPRINT Violet FB		BEZAPRINT Violet TN		BEZAPRINT Blue TB		BEZAPRINT Blue GOT		BEZAPRINT Blue BT		BEZAPRINT Blue RT		BEZAPRINT Blue RR	
				CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES
Fastness to Light		CC	1 g/kg 7.5 g/kg 30 g/kg		7-8 7-8 7-8		7-8 7-8 7-8		7 7 7-8		7-8 7-8 7-8		6-7 7-8 7-8		7-8 7-8 7-8		7-8 7-8 7-8		7-8 7-8 7-8
Fastness to weathering		CC	1 g/kg 7.5 g/kg 30 g/kg		6 6 7		6-7 7 7		7 7 7		7 7 7		5-6 C 6 C 6-7		7 7 7		6 C 6 C 6 C		5 C 5-6 C 6-7
Fastness to hypochlorite bleaching		CC	1 g/kg 30 g/kg		2-3 3		2-3 2		4-5 4-5		4-5 5		4-5 5		4-5 5		4-5 5		4-5 5
Fastness to chlorinated water (swimming pool water)	100 mg/l Chlorine	CC	1 g/kg 30 g/kg		3 4		4-5 4-5		5 4		5 4-5		4-5 5		5 4-5		5 4-5		5 4-5
Fastness to dry cleaning	Perchlorethylene	CC	1 g/kg		5		5		4		5		4-5		4		5		3-4
		SO			5		5		4		5		4-5		5		5		3-4
		CC	30 g/kg		5		5		4-5 4		4-5 5		5 5		4-5 5		5 5		4 4
Suitability for PVC coating		PVC	30 g/kg		4		4-5		4-5		4-5		4-5		4-5		4-5		4-5
Change of shade on fixation	4 min, 150 ° C	CC	1 g/kg 30 g/kg		4-5 5		4-5 5		4-5 5		4-5 5		4-5 5		4-5 5		4-5 5		4-5 4-5
Heat stability	2 min, 175 ° C	CC	1 g/kg 30 g/kg		4 5		4 5		4-5 5		4-5 5		4-5 4-5		4 5		4-5 4-5		4-5 5
	1 min, 200 ° C	CC	1 g/kg 30 g/kg		3 4-5		3 4-5		3-4 5		4 5		4 4-5		4 4-5		3-4 4-5		3-4 5
Resistance to discharge in printing paste	Tubiscreen DC Agent				+		+		+		+		+		+		+		+
Selection for screen printing					●		●		●		●		●		●		●		●
GOTS					●		●		●		●		●		●		●		●
bluesign®					bluesign APPROVED		bluesign APPROVED				bluesign APPROVED		bluesign APPROVED		bluesign APPROVED				

- n.s. not suitable
- C more clear
- B more bluish
- G more greenish
- R more reddish
- Y more yellowish
- + resistant to discharge
- (+) limited resistant to discharge (only for short time)
- not resistant to discharge
- CC colour change
- PVC staining of the PVC-foil
- SO staining of the solvent

BEZAPRINT

A

ADVANCED

Improved and adapted ranges for versatile and economical use which meet high requirements.



Color-Prints with 30 and 7.5 g/kg
White Print with 80 g/kg

				BEZAPRINT Navy GOT		BEZAPRINT Navy TR		BEZAPRINT Navy B-WN		BEZAPRINT Turquoise GT		BEZAPRINT Green BS		BEZAPRINT Green BT		BEZAPRINT Olive Green BT		BEZAPRINT Brown B-RRT	
				CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES
Fastness to Light		CC	1 g/kg 7.5 g/kg 30 g/kg		7-8 7-8 7-8		7-8 7-8 7-8		3-4 4 5-6		7-8 7-8 7-8		4 5-6 7		7-8 7-8 7-8		5-6 6-7 7-8		5 5-6 6-7
Fastness to weathering		CC	1 g/kg 7.5 g/kg 30 g/kg		6-7 7 7		6 C 6 C 6-7 C		n.s. n.s. n.s.		7 7 7		n.s. 5 B 6-7 B		7 7 7		5 B 6 B 7		n.s. n.s. n.s.
Fastness to hypochlorite bleaching		CC	1 g/kg 30 g/kg		4 4-5		4-5 5		4 4		4-5 5		5 5		5 5		4-5 5		4 4-5
Fastness to chlorinated water (swimming pool water)	100 mg/l Chlorine	CC	1 g/kg 30 g/kg		4 4-5		5 4-5		4-5 4-5		5 5		5 5		5 5		5 5		4 4-5
Fastness to dry cleaning	Perchlorethylene	CC	1 g/kg		4 4		3 4-5		1 4		4-5 5		4 4-5		5 5		5 5		3 4-5
		CC SO	30 g/kg		4-5 4-5		4 4-5		4 3		4-5 5		5 4-5		4-5 5		4-5 5		3-4 4
Suitability for PVC coating		PVC	30 g/kg		4-5		4-5		3-4		4-5		3-4		4-5		4-5		3
Change of shade on fixation	4 min, 150 °C	CC	1 g/kg 30 g/kg		4-5 4-5		4-5 4-5		4-5 5		4-5 4		4-5 5		5 5		5 5		4 3-4
Heat stability	2 min, 175 °C	CC	1 g/kg 30 g/kg		4 5	4 4-5	4-5 5	4-5 5	4 4-5	4 4-5	4-5 4	4-5 4	3-4 5	4-5 5	5 5	5 5	5 5	4 3-4	4 4-5
	1 min, 200 °C	CC	1 g/kg 30 g/kg		3 5	3 5	3-4 4-5	3-4 5	3-4 4-5	3 4	3 4	4 4	2 4-5	4 5	4-5 5	4-5 5	4-5 5	3-4 3-4	2-3 3-4
Resistance to discharge in printing paste	Tubiscreen DC Agent				(+)		+		(+)		+		+		+		+		-
Selection for screen printing							●				●		●		●		●		●
GOTS					●		●												
bluesign®					bluesign APPROVED						bluesign APPROVED		bluesign APPROVED				bluesign APPROVED		

- n.s. not suitable
- C more clear
- B more bluish
- G more greenish
- R more reddish
- Y more yellowish
- + resistant to discharge
- (+) limited resistant to discharge (only for short time)
- not resistant to discharge
- CC colour change
- PVC staining of the PVC-foil
- SO staining of the solvent

BEZAPRINT

A

ADVANCED

Improved and adapted ranges for versatile and economical use which meet high requirements.



Color-Prints with 30 and 7.5 g/kg
White Print with 80 g/kg

				BEZAPRINT Brown TM		BEZAPRINT Grey BB		BEZAPRINT Black DT		BEZAPRINT Black DW		BEZAPRINT Black GOT		BEZAPRINT Black BDC	
				CO	PES	CO	PES	CO	PES	CO	PES	CO	PES	CO	PES
Fastness to Light	CC	1 g/kg		7		7		7		7-8		7-8		7-8	
		7.5 g/kg		7-8		7		7		7-8		7-8		7-8	
		30 g/kg		7-8		7-8		7-8		7-8		7-8		7-8	
Fastness to weathering	CC	1 g/kg		6 G		5 B		7		7		6-7		7	
		7.5 g/kg		6-7 G		5-6 B		7		7		6-7		7	
		30 g/kg		7		6-7 B		7		7		7-8		7	
Fastness to hypochlorite bleaching	CC	1 g/kg		5		4-5		4		4		4-5		5	
		30 g/kg		5		5		5		5		5		5	
Fastness to chlorinated water (swimming pool water)	100 mg/l Chlorine	CC	1 g/kg 30 g/kg	5		5		5		5		4-5		5	
				5		5		5		5		5		5	
Fastness to dry cleaning	Perchlorethylene	CC	1 g/kg	5		4		4		5		5		4-5	
				SO	5		5		5		5		5		5
		CC	30 g/kg	5		4		4-5		5		5		4-5	
				SO	5		5		4		5		5		5
Suitability for PVC coating	PVC	30 g/kg		2		4		4-5		4-5		4-5		4-5	
Change of shade on fixation	4 min, 150 ° C	CC	1 g/kg 30 g/kg	4-5		4-5		4-5		5		5		5	
				5		4-5		5		5		5		5	
Heat stability	2 min, 175 ° C	CC	1 g/kg 30 g/kg	4-5 5	4-5 4-5	4-5 5	4-5 5	4-5 5	5 5	5 5	4-5 5	5 5	5 5	4-5 5	5 5
	1 min, 200 ° C	CC	1 g/kg 30 g/kg	4 5	4-5 4-5	3-4 4-5	3-4 4-5	4-5 5	5 5	5 5	4-5 5	5 5	5 5	4-5 5	5 5
Resistance to discharge in printing paste	Tubiscreen DC Agent			+		+		+		+		+		+	
Selection for screen printing						●		●		●		●		●	
GOTS				●				●		●		●		●	
bluesign®				bluesign APPROVED				bluesign APPROVED		bluesign APPROVED		bluesign APPROVED		bluesign APPROVED	

- n.s. not suitable
- C more clear
- B more bluish
- G more greenish
- R more reddish
- Y more yellowish
- + resistant to discharge
- (+) limited resistant to discharge (only for short time)
- not resistant to discharge
- CC colour change
- PVC staining of the PVC-foil
- SO staining of the solvent

BEZAPRINT

A

ADVANCED

Improved and adapted ranges for versatile and economical use which meet high requirements.

Color-Prints with 30 and 7.5 g/kg
White Print with 80 g/kg

DATA ABOUT FASTNESS PROPERTIES:

The fastness properties indicated in the shade card were determined on bleached, mercerised cotton with the concentrations mentioned. We have deliberately dispensed with providing information on washing and crocking fastnesses, since they depend mainly on the binding and fixing agents used and barely on the pigment. Depending on type and application quantity (with reference to the amount of pigment used) of binding and fixing agent, these fastnesses may vary significantly. In addition, washing and crocking fastnesses are influenced by softeners, fixing conditions (temperature and time) as well as by the condition of the material to be printed (residual size, neutral pH value, mercerization, texture of the surface). Fastness notes in this case would reflect a momentary situation under optimal test conditions and hence would not be meaningful under other conditions in practice.

The BEZAPRINT range fully complies with the requirements on the limits for impurities or by-products as specified in the ZDHC Manufacturing Restricted Substances List (ZDHC MRSL, current version 3.0, November 2022, refer to www.roadmaptozero.com).

The products of the BEZAPRINT range are suitable for the coloration of textile materials which have to fulfill the requirements of the OEKO-TEX® STANDARD 100 (edition 01.2023). Please contact our Department Product Safety for further details or restrictions (product-safety.switzerland@cht.com).

Combinations of C.I. Pigment Orange 13 or 34 with C.I. Pigment Black 7 should be avoided, as 3,3'-dichlorobenzidine can be released with these combinations under the testing method for cancerous amines.

* Determination method: DIN 38414-18, limit value: 0.1 %.

** The heavy metal is complexly bonded and thus an integral part of the pigment molecule.

*** As iron oxide part of the preparation. Not relevant to the ecotoxicology and the effluent treatment regulations.

Fastness to Light		CC	1 g/kg 7.5 g/kg 30 g/kg	Fastness to Light	DIN EN ISO 105-B02
Fastness to weathering		CC	1 g/kg 7.5 g/kg 30 g/kg	Fastness to weathering	DIN EN ISO 105-B04
Fastness to hypochlorite bleaching		CC	1 g/kg 30 g/kg	Fastness to hypochlorite bleaching	DIN EN ISO 105-N01
Fastness to chlorinated water (swimming pool water)	100 mg/l Chlorine	CC	1 g/kg 30 g/kg	Fastness to chlorinated water (swimming pool water)	DIN EN ISO 105-E03
Fastness to dry cleaning	Perchlorethylene	CC SO	1 g/kg	Fastness to dry cleaning	DIN EN ISO 105-D01
		CC SO	30 g/kg		
Suitability for PVC coating		PVC	30 g/kg	Suitability for PVC coating	DIN EN ISO 105-X10
Change of shade on fixation	4 min, 150 °C	CC	1 g/kg 30 g/kg	Change of shade on fixation	Colour change to print dried 2 min 120 °C.
Heat stability	2 min, 175 °C	CC	1 g/kg 30 g/kg	Heat stability	Colour change to print dried 105 °C and cured 4 min 150 °C.
	1 min, 200 °C	CC	1 g/kg 30 g/kg		
Resistance to discharge in printing paste	Tubiscreen DC Agent			Resistance to discharge in printing paste	
Selection for screen printing				Selection for Screen printing	
GOTS				GOTS	
bluesign®				bluesign®	

n.s. not suitable
C more clear
B more bluish
G more greenish
R more reddish
Y more yellowish

+ resistant to discharge
(+) limited resistant to discharge (only for short time)
- not resistant to discharge
CC colour change
PVC staining of the PVC-foil
SO staining of the solvent

Recommendation for application: prepare fresh for immediate use / Stability of pigment preparations is limited with reducing agent in printing paste (different).



The BEZAPRINT products are free from heavy metals in the sense of the limit values recommended by the ETAD for heavy metal contamination.

The data contained in this shade card is given to the best of our knowledge and belief. It does not guarantee specific product properties.

Ecological Information

Name of the pigment	AOX * %	Content of heavy metal **		Contains C.I. Pigment		
		Metal	%	Orange 13 or 34	Black 7	Yellow 12-14, 16, 17, 81 or 83
BEZAPRINT White 001	free	Ti	38			
BEZAPRINT Yellow HL	free	free				
BEZAPRINT Yellow 3GT	3.3	free				●
BEZAPRINT Yellow 2GN	2.3	free				●
BEZAPRINT Yellow GOT	free	Fe***	25			
BEZAPRINT Yellow RR	5.9	free				●
BEZAPRINT Golden Yellow M	free	free				
BEZAPRINT Orange EF	free	free				
BEZAPRINT Orange RG	3.5	free		●		
BEZAPRINT Orange GT	free	free				
BEZAPRINT Red SGR	free	free				
BEZAPRINT Red HBB	0.3	free				●
BEZAPRINT Scarlet RR	free	free				
BEZAPRINT Red KGC	free	free				
BEZAPRINT Red GOT	free	free				
BEZAPRINT Red KF	1.8	free				
BEZAPRINT Pink BW	free	free				
BEZAPRINT Violet FB	free	free				
BEZAPRINT Violet TN	1.2	free				
BEZAPRINT Blue TB	0.4	Cu	4.2			
BEZAPRINT Blue GOT	free	Cu	3.3			
BEZAPRINT Blue BT	free	Cu	4.3			
BEZAPRINT Blue RT	0.8	Cu	3.9		●	
BEZAPRINT Blue RR	0.6	Cu	2.4			
BEZAPRINT Navy GOT	0.5	Cu	2.7			
BEZAPRINT Navy TR	0.9	Cu	2.0		●	
BEZAPRINT Navy B-WN	free	Cu	2.6		●	
BEZAPRINT Turquoise GT	8.3	Cu	3.0			
BEZAPRINT Green BS	15.9	Cu	1.3			●
BEZAPRINT Green BT	13.5	Cu	2.4			
BEZAPRINT Olive Green BT	8.8	Cu	0.8		●	●
BEZAPRINT Brown B-RRT	2.3	free			●	●
BEZAPRINT Brown TM	0.5	Fe***	10.6		●	●
BEZAPRINT Grey BB	0.7	Cu	2.1		●	
BEZAPRINT Black DT	free	free			●	
BEZAPRINT Black DW	free	free			●	
BEZAPRINT Black GOT	free	free			●	
BEZAPRINT Black BDC	free	free			●	



Printed on 100% recycled paper that has been awarded the Blue Angel ecolabel. The use of chlorine, halogenated bleaching agents and not readily biodegradable complexing agents is also prohibited during the production process of this recycled paper.

CHT

SMART CHEMISTRY
WITH CHARACTER.

www.cht.com

05 / 2023_en