



# PRINTING INK ADDITIVES

PORTFOLIO FOR FLEXO & OPV SYSTEMS

**CHT**  
SMART CHEMISTRY  
WITH CHARACTER.

# CHT`S PRINTING INK ADDITIVES

## SUBSTRATE WETTING AGENTS

Due to fast printing processes, rapid and homogeneous wetting of the ink on the substrate is essential.

For this purpose, ink additives of CHT are outstandingly suitable, since printing systems to which substrate wetting agents are added, not only produce sufficient wetting, but are also less susceptible to craters and surface defects.

CHT Product	Key property	Active content	Application		Food contact approvals		
			FLEXO	OPV	Swiss Ordinance	BfR	FDA
HANSA ADD 1065	low foam tendency	100%	✓	-	✓	-	-
HANSA ADD 1225	universal usage	100%	-	✓	✓	✓	✓

## LEVELLING & SURFACE ADDITIVES

For a homogeneous, flawless coating, it is crucial to find an ideal levelling agent that is efficient even with short drying times and thin layer thicknesses. In addition, inks on flexible packaging surfaces require slip and anti-blocking properties to achieve a high scratch resistance.

Organomodified siloxanes of CHT have no influence on the finished coating, such as organic standard waxes. Combinations of polysiloxane additives and waxes could generate additional effects, e.g. support the orientation of waxes and matting agents.

CHT Product	Key property	Active content	Application		Food contact approvals		
			FLEXO	OPV	Swiss Ordinance	BfR	FDA
HANSA ADD 1010	universal usage	100%	-	✓	✓	✓	✓
HANSA ADD 1045	high levelling & slip effect	100%	✓	-	✓	✓	-
HANSA ADD 4090	anti-blocking & release effect	100%	-	✓	✓	✓	-
HANSA ADD 6775	slip & scratch resistance	75%	-	✓	✓	✓	✓

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## DEFOAMERS

The appearance of foam is one of the biggest challenges when working with water-based inks because foam is never desired. In addition to filling problems during production, foam also has a considerable influence on the printing process, since surface defects can occur.

CHT offers customized defoamers for a variety of applications or, if needed, a suitable combination of perfectly matched products.

CHT Product	Key property	Active content	Application		Food contact approvals		
			FLEXO	OPV	Swiss Ordinance	BfR	FDA
HANSA ADD 1075	universal usage	100%	✓	-	✓	✓	✓
HANSA ADD 5020D	balanced compatibility	100%	✓	-	✓	✓	-
HANSA ADD 5070D	outstanding effectivity	100%	✓	-	✓	✓	-
HANSA ADD 5733	easy incorporation	20%	-	✓	✓	✓	-
HANSA ADD 5744	long-term persistence	20%	✓	-	✓	✓	-
HANSA ADD 5750	usage in high-gloss systems	20%	-	✓	✓	✓	✓
HANSA ADD 5760	quick foam knockdown	17%	✓	✓	✓	✓	✓

## Food contact requirements

We generally confirm that our Core Portfolio comply with the following regulations if used and applied as defined in our technical leaflet.

- Swiss Ordinance Regulation on Materials & Articles of FDHA / Annex 10
- BfR Recommendations by the Federal Institute for Risk Assessment / No. XV / XXXVI
- CFR. 21 Regulation by the U.S. Food & Drug Administration (FDA) / §175.105 / 175.300 / 176.170 / 176.180 / 176.200 / 176.210

For further information about food regulatory approvals, please contact our product safety department under [product-safety@cht.com](mailto:product-safety@cht.com)

As global medium-sized player for specialty chemistry, the CHT Group offers sustainable solutions with the intention to be the first reference and a reliable partner for our worldwide customers supporting their demands on a long-term basis.

# CHT`S PRINTING INK ADDITIVES

## Portfolio for FLEXO & OPV systems

Inks are compounds of dyes, binders, solvents and additives. Their composition is similar to conventional paint and coating systems, though the drying time is usually shorter and the layer thickness much lower. The use of additives is indispensable to meet today's high technological requirements both in production and in application.

Looking to the future, we expect a growing demand for environmentally friendly and food-grade inks, linked to the growth of the flexible packaging market and the interest in sustainable solutions. Therefore, CHT offers a core portfolio for water-based applications and extends its additive range for food-compliant FLEXO and OPV systems.

