

AkzoNobel Packaging Coatings

# 2pc Inks

Unleash your creativity with our advanced packaging inks

**AkzoNobel** 

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# The ultimate end user appeal

AkzoNobel 2PC Ink Technology and Branding

With so many variables in metal decorating, it is paramount that printers have a reliable ink maker. As printing ink manufacturers are challenged to offer newer color choices and higher performance options, AkzoNobel continues to design its products to give you the look you want and the protection you require. Metal packaging offers tremendous convenience and recyclability and the decoration is one of the driving forces behind the creation of corporate identities through global branding. Through our research and development effort we continue to innovate in ink development recognizing that metal decorating technology plays a key role in influencing the ultimate end user appeal.

## NovaPAC is a market leading ink for printing on steel cans without OPV

- NovaPAC inks are designed for application to base coated steel where there is no over print varnish used.
- Excellent abrasion resistance for long distance transportation.
- Lowest film weights offering outstanding mileage.
- Can be used for aluminum cans with special OPV Aq 186 to achieve tactile effect.
- Very consistent press performance across a wide window of operating conditions.



## Zenith OV is a new innovative ink system for printing on aluminium cans

- High strength base colours with Improved rheology for today's high speed presses.
- Excellent compatibility with water-base and solvent-base varnishes to achieve high abrasion resistance and high gloss.
- Good Mileage & Colour Consistency.
- Excellent retort, sterilization and pasteurization resistance.
- Excellent lay and printability.
- Low misting properties.



We have colour approvals for key brands and most of the major designs

# ...AkzoNobel 2pc Zenith OV Ink Base Range

### Zenith™ OV Base Range Basic Properties

HULL CATALOGUE ITEM	BRAND	DESCRIPTION	COLOUR	LIGHTFASTNESS (1)		STERILISATION RESISTANCE (2)	HEAT RESISTANCE (3)	DETERGENT RESISTANCE (4)	SWEAT & SALIVA RESISTANCE (5)	PASTEURISATION RESISTANCE (6)
				FULL TONE	20:1 REDUCTION					
609.119	Zenith™ OV	Tint Medium	-	-	-	Excellent	>200 °c	Excellent	Excellent	Excellent
607.362	Zenith™ OV	Opaque White (B)		-	-	Excellent	>200 °c	Excellent	Excellent	Excellent
608.120	Zenith™ OV	HP Carmine Red		7	6	Excellent	>200 °c	Excellent	Excellent	Excellent
608.121	Zenith™ OV	Warm Red		4	2	Poor	<190 °c	Poor	Poor	Poor
608.122	Zenith™ OV	HP Warm Red		6-7	6	Excellent	>200 °c	Excellent	Excellent	Excellent
608.123	Zenith™ OV	HP Warm Red (SO)		6-7	6	Excellent	>200 °c	Excellent	Excellent	Excellent
608.124	Zenith™ OV	Pink		7	7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.125	Zenith™ OV	Carmine Red		5	4	Poor	<190 °c	Poor	Poor	Poor
608.126	Zenith™ OV	Lake Red		3	2	Poor	>200 °c	Poor	Poor	Poor
608.127	Zenith™ OV	Orange		4	2	Poor	< 190 °c (DL)	Poor	Poor	Poor
608.128	Zenith™ OV	HP Orange		6-7	6-7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.129	Zenith™ OV	HP GS Yellow		7	7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.130	Zenith™ OV	Mid Yellow		5	4	OK	<190 °c (DL)	OK	OK	OK
608.131	Zenith™ OV	GS Yellow		5	4	OK	<190 °c (DL)	OK	OK	OK
608.132	Zenith™ OV	RS Yellow		5	4	OK	<190 °c (DL)	Good	Good	Good
608.133	Zenith™ OV	HP RS Yellow		6-7	6-7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.134	Zenith™ OV	GS Blue		7	7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.236	Zenith™ OV	Dye Blue		7	7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.135	Zenith™ OV	Milori Blue		7	7	Poor	<190 °c	Poor	Poor	Poor
608.136	Zenith™ OV	Green		7	7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.137	Zenith™ OV	Violet		7	6	Excellent	>200 °c	Excellent	Excellent	Excellent
608.138	Zenith™ OV	Blending Black		7	7	Excellent	>200 °c	Excellent	Excellent	Excellent
608.470	Zenith™ OV	Silver		7	6	Limited	>200 °c	Excellent	Excellent	Excellent

KEY  
(B) Blending  
(SO) Semi Opaque  
(DL) Diarylide



# Zenith OV Inks Range

## by End Use



Standard Base Range

- High strength base colours



High Process Base

- High process bases for excellent retort, sterilization and pasteurization resistance



Speciality Colours

- Special effects such as fluorescent colours - Ultra Violet glow in the dark inks (Disco ink)

# Features and Benefits...

### FEATURES

- Extra high strength base colors offering widest color gamut
- Precise colors, every time
- Improved rheology for today's high speed presses
- Excellent compatibility with water based and solvent based varnishes
- Excellent retort, sterilization and pasteurization resistance in conjunction with an appropriate varnish

### BENEFITS

- Good Mileage & Color Consistency
- Very consistent press performance across a wide window of operating conditions
- Low misting properties
- Excellent lay and printability
- Better scratch resistance especially on necking area with high gloss
- Fit for APAC retort drinks demand



# AkzoNobel Formulating & Food Safety Policy...

Our Zenith™ Series, NovaPAC™ Series and PACtube™ Series meet the following food regulatory requirements...

- Good Manufacturing Practice
- EuPIA Guideline on Printing Inks
- European Directive 94/62/EC
- US CONEG Regulations
- European Directive 2002/95/EC
- Nestlé Compliance
- Swiss Ordinance 917.023.21
- Bis-Phenol A, NIA (BP ANI)
- Silicone Free
- PVC, NIA
- Materials of animal origin, NIA

### All of our current products...

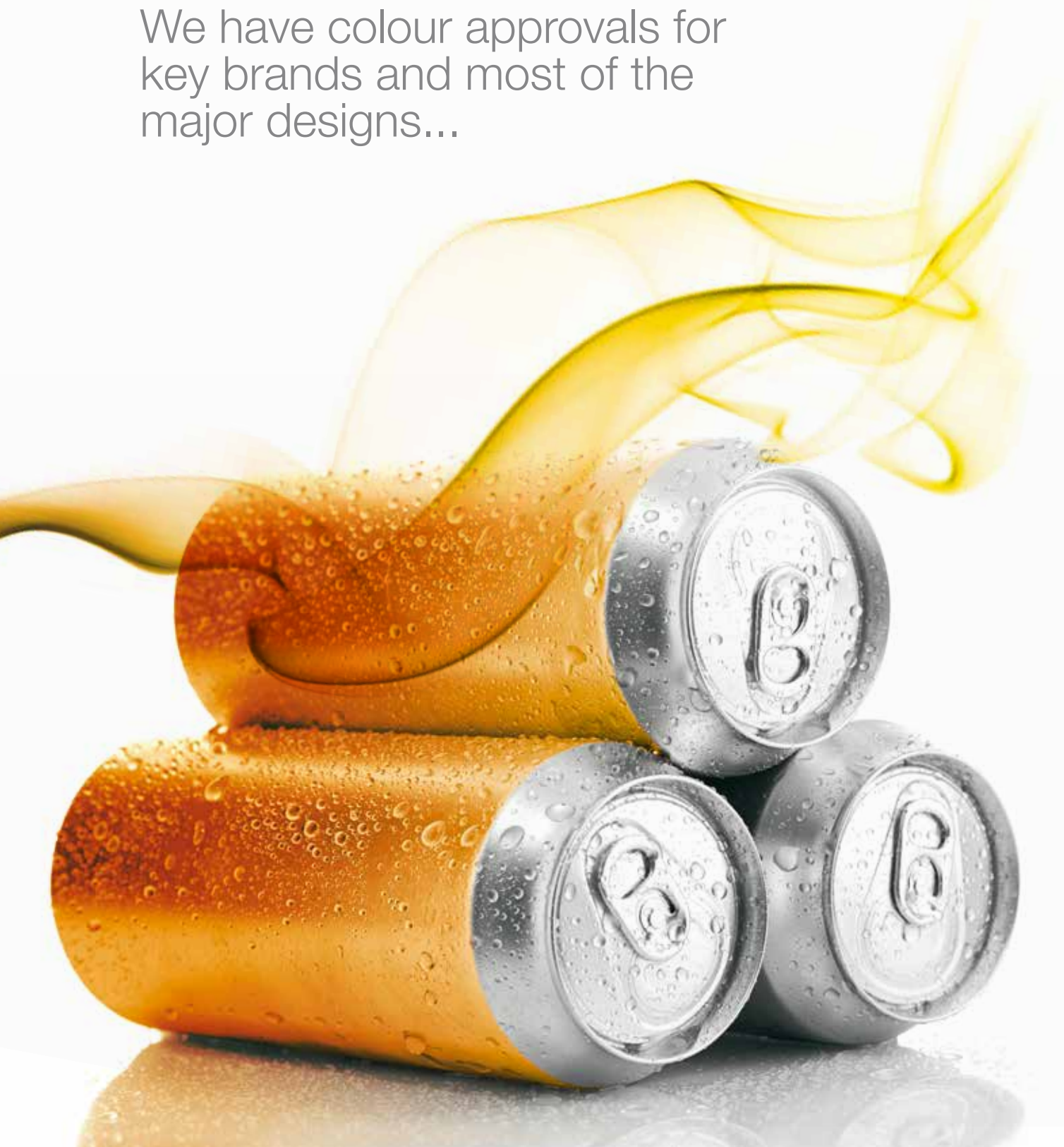
- ✓ Conform to the **European EN71/3 Toy Regulations**, **USA Coneg Regulations** and **European Packaging Waste Directive**.
- ✓ Conform to the **EuPIA Guidelines** and none of the components used are classified as toxic (T) or very toxic (T+) according to 67/548/EEC.
- ✓ Are formulated to conform to **Regulation 2023t/2006** and **Swiss Ordinance SR817.023.21**.
- ✓ Are formulated in such a way that they should **not effect the organoleptic properties** of the food to be packed.
- ✓ Are formulated so that when applied as recommended, **the potential migration of any of the components will be below levels of concern**.






# Zenith OV inks Colour Approval and Supply...


We have colour approvals for key brands and most of the major designs...



# Songjiang 2pc Inks Production...

 Songjiang Manufacturing site in China start to run in Q3, 2015.



 RD&I resource is built up in China for global 2pc inks innovation.



## AkzoNobel's Service Capability...



**In-plant ink room**  
will be setup in each site where necessary



**Offer training**  
to the operators on knowledge of inks and application



**Inks mileage analysis**  
& monitoring to ensure rationalized cost level



**Full packaging solutions**  
and technical supports



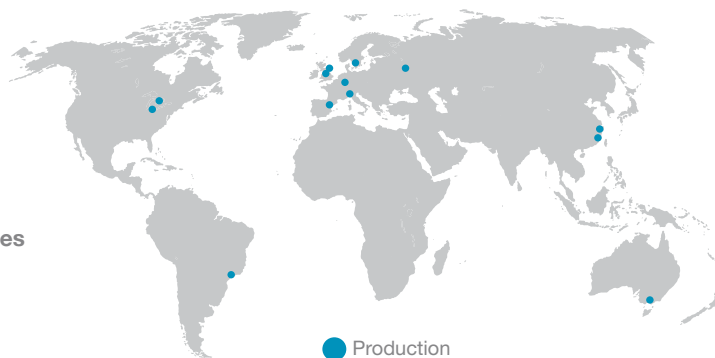
**Local technical service team**  
established in China, Vietnam, Thailand and Malaysia



**Fully independent technical service**  
with expertise will be provided plus global support where necessary

## Contact us

For more information on AkzoNobel Packaging Coatings contact your local representative at any of the country offices listed, or visit our website at [www.akzonobel.com/packaging](http://www.akzonobel.com/packaging)



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[www.akzonobel.com/packaging](http://www.akzonobel.com/packaging)

AkzoNobel is a leading global paints and coatings company and a major producer of specialty chemicals. Calling on centuries of expertise, we supply industries and consumers worldwide with innovative products and sustainable technologies designed to meet the growing demands of our fast-changing planet. Headquartered in Amsterdam, the Netherlands, we have approximately 46,000 people in around 80 countries, while our portfolio includes well-known brands such as Dulux, Sikkens, International, Interpon and Eka. Consistently ranked as one of the leaders in the area of sustainability, we are committed to making life more liveable and our cities more human.

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