



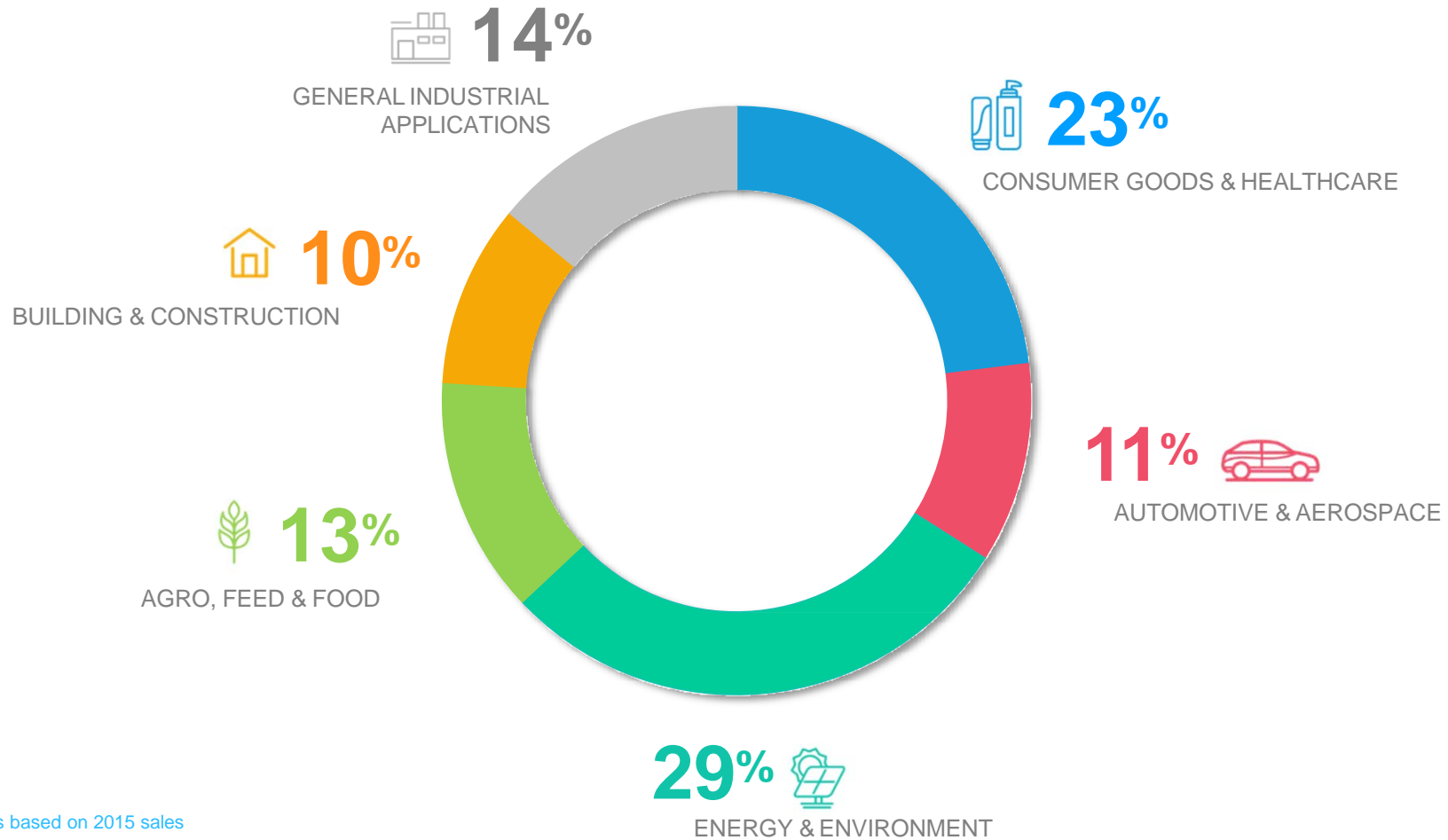
**SOLVAY**

asking more from chemistry®

# Novecare Products for Celulose process

**Novecare**

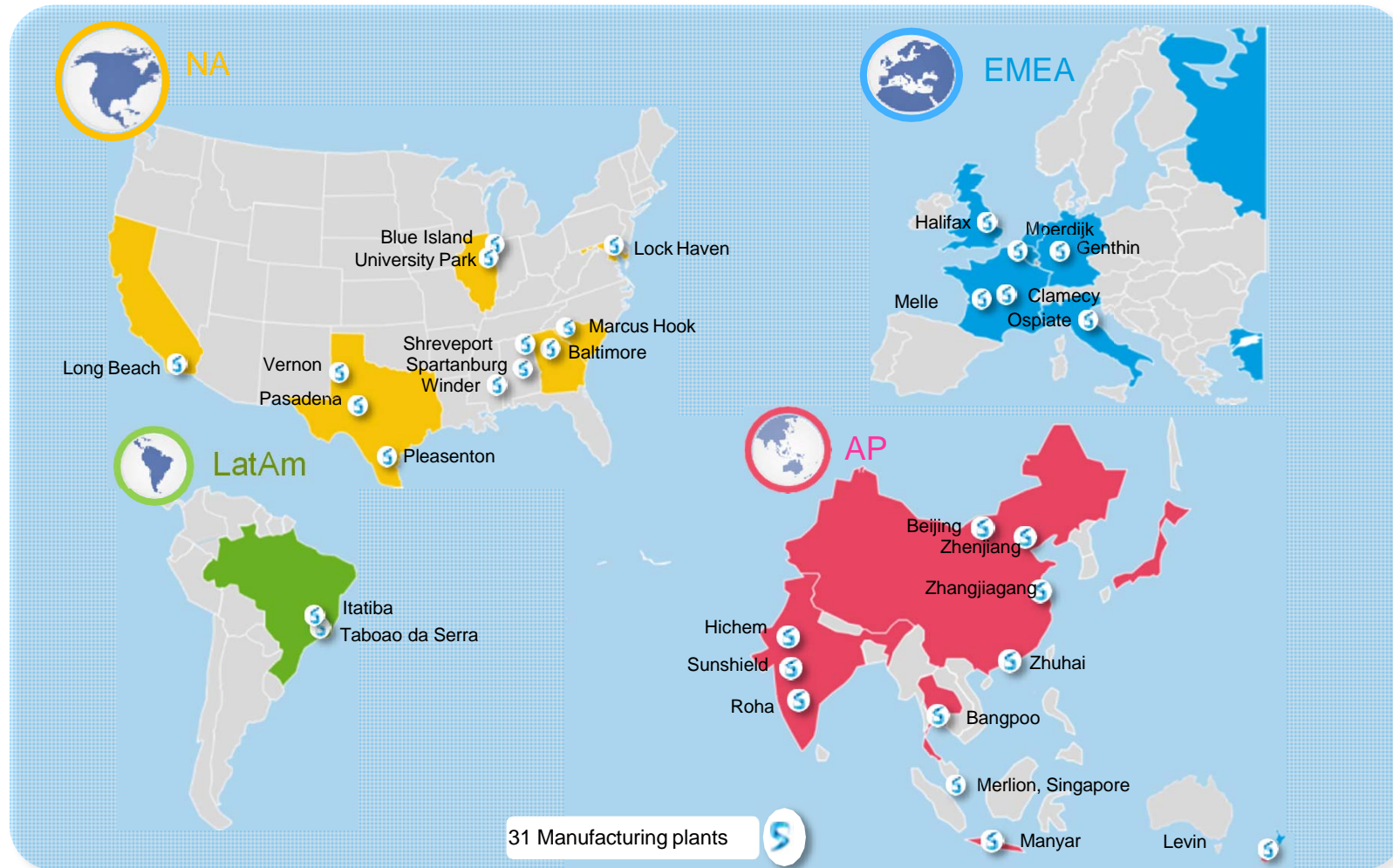
# NOVECARE PRODUCT OFFERING FOR THE MOST DEMANDING MARKETS



Estimates based on 2015 sales

# Novecare global footprint

We are where CUSTOMERS needs us



# NOVECARE APPLICATIONS

## SERVING FOCUSED MARKET SEGMENTS



HPC

- Hair Care
- Body Care
- Skin Care
- Home Care
- Institutional & Industrial



AGRO

- Crop Protection
  - Specialty Surfactants
  - Herbicide Activators
  - Tank Mix
- Plant health
  - Fertilizer Protection
- Seed Care



OIL & GAS

- Drilling
- Cementing
- Stimulation
- Production
- Enhanced Oil Recovery



COATINGS

- Binder Solutions
- Performance Solutions
- Color Solutions








INDUSTRIAL  
PROCESS  
SOLUTIONS

- Lubricants
- Metal working fluids
- Metal cleaning
- Metal surface treatment
- Plastic additives
- Water treatment
- Textile additives



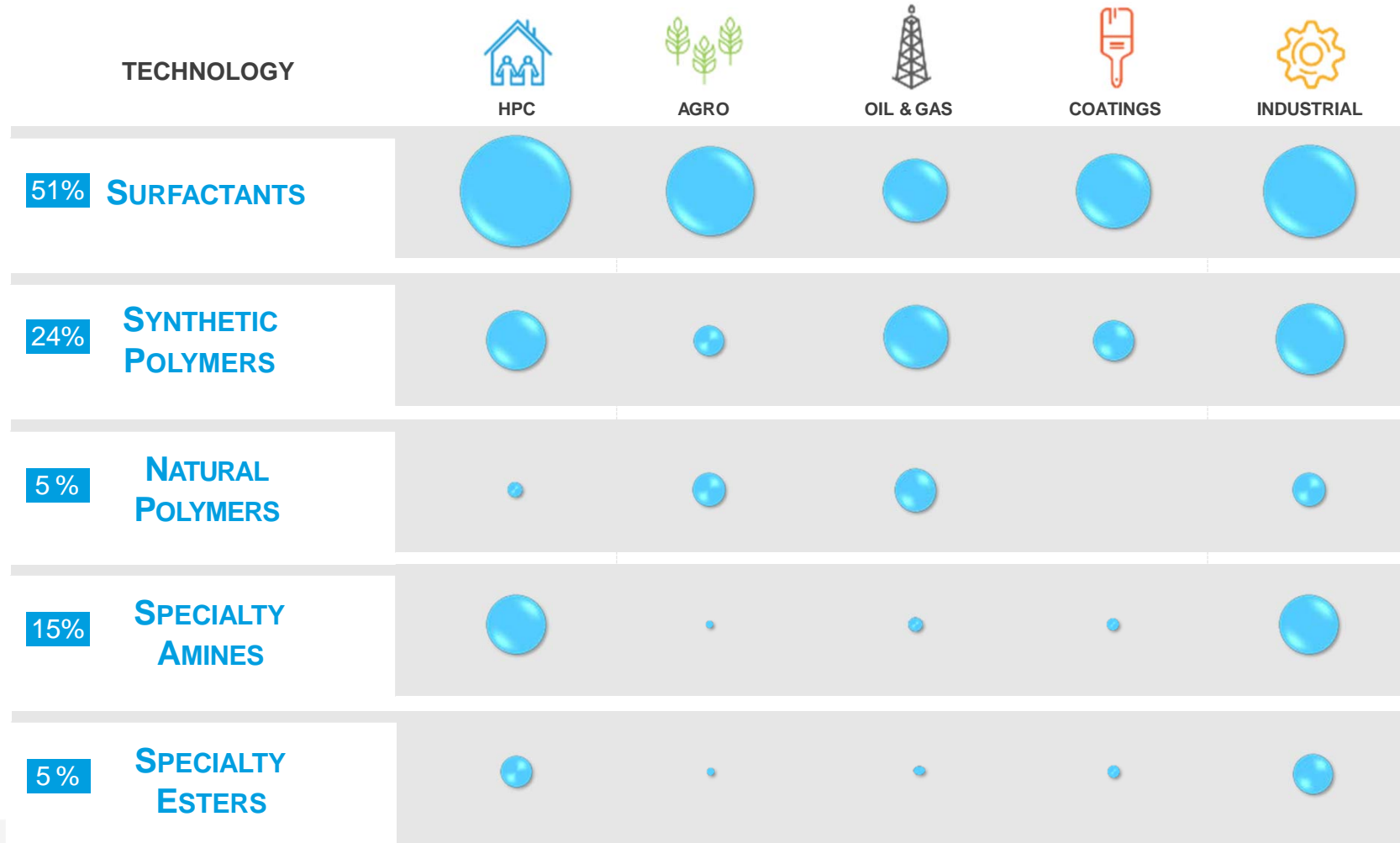
# NOVECARE PRODUCT FUNCTIONALITIES

## CHEMICALS & SERVICES TO ANSWER UNMET NEEDS

	 HPC	 AGRO	 OIL & GAS	 COATINGS	 INDUSTRIAL PROCESS SOLUTIONS
<b>INTERFACES MANAGEMENT</b>	Foam management Cleaning Soil Release	Long lasting foam	De emulsification	Emulsification Open time/freeze/thaw extender Anti Foam	Lubrication Emulsification Low-foam
<b>SURFACE MODIFICATION</b>	Soil Release Hydrophilisation	Wettability		Adhesion promoters Surfactants	Anti corrosion Adhesion promoters Low-fouling surfaces
<b>FLUID BEHAVIORS</b>	Rheology modifiers	Anti drift Anti rebound	Friction reduction Gelling systems	Rheology technology	Rheology modifiers Gelling agents Anti-settling
<b>DISPERSION &amp; SOLUBILIZATION</b>	Long lasting bacteriostaticity	Active solubilization Fertilizers Protection	Triggered systems Anti scaling Clay dispersion	Pigment wetting & dispersion	Fluidification Dispersants Cleaning

# Novecare technologies

## Cutting-edge technologies across markets



Case Study

# Rhodapon BOS as Bamboo Cooking Agent

Cooking Conditions ( 蒸煮条件 ) :

Degree of total alkaline ( 总碱度 ) :23%

Degree of vulcanization ( 硫化度 ) :19%

Dosage of Rhodapon BOS ( 加量 ) : 0.25kg/ton

Customer Spec:10-12

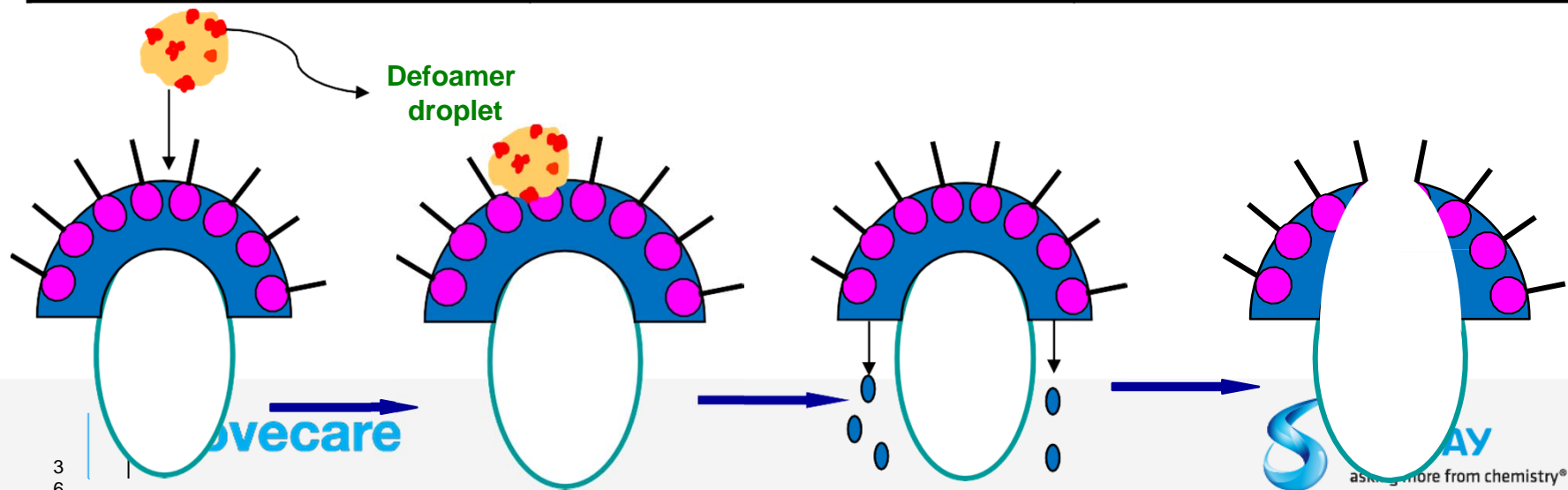
	蒸煮时间 (h:min)	吊包残碱 g/L	吊包 锰值	吊包得 率%	5 KG用 量 残碱g/L	5 KG用 量 锰值	5 KG用 量 4#锰值
Rhodapon BOS	5:20	13.33	14.44	44.93	12.80	13.52	11.61
AQ	6:00	13.02	13.86	43.96	10.97	13.72	11.19

Residual Alkaline: The higher, The better

**Novecare**

# Paper size& Press Additives: 涂布助剂

Type	Products	Recommend Dosage (kg/ton)
Defoamer 消泡剂	<i>Rhodoline DF5800</i>	0.6-0.8
	<i>Rhodoline DF642</i>	0.3-0.6
	<i>Rhodoline DF5688</i>	0.3-0.6
Wetting Agents 润湿剂	<i>Geropon CYA75P</i>	0.2-0.8





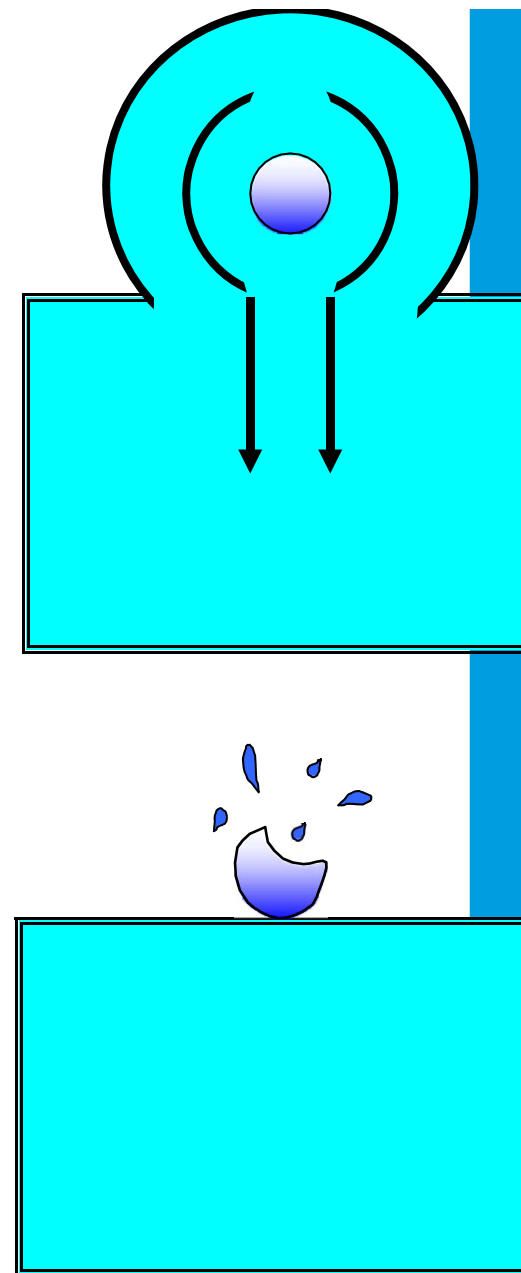
# Rhodoline Defoamer specification

- Free silicone, Free APEO  
不含硅树脂, 不含烷基酚聚氧乙烯醚
- Easily disperse, Good compatibility  
良好的分散性, 和体系相溶性好
- Quickly defoaming, long resistance  
消泡迅速, 长效, 持久
- Lower dosage and high cost-effective  
用量低, 性价比高

## Application Fields:

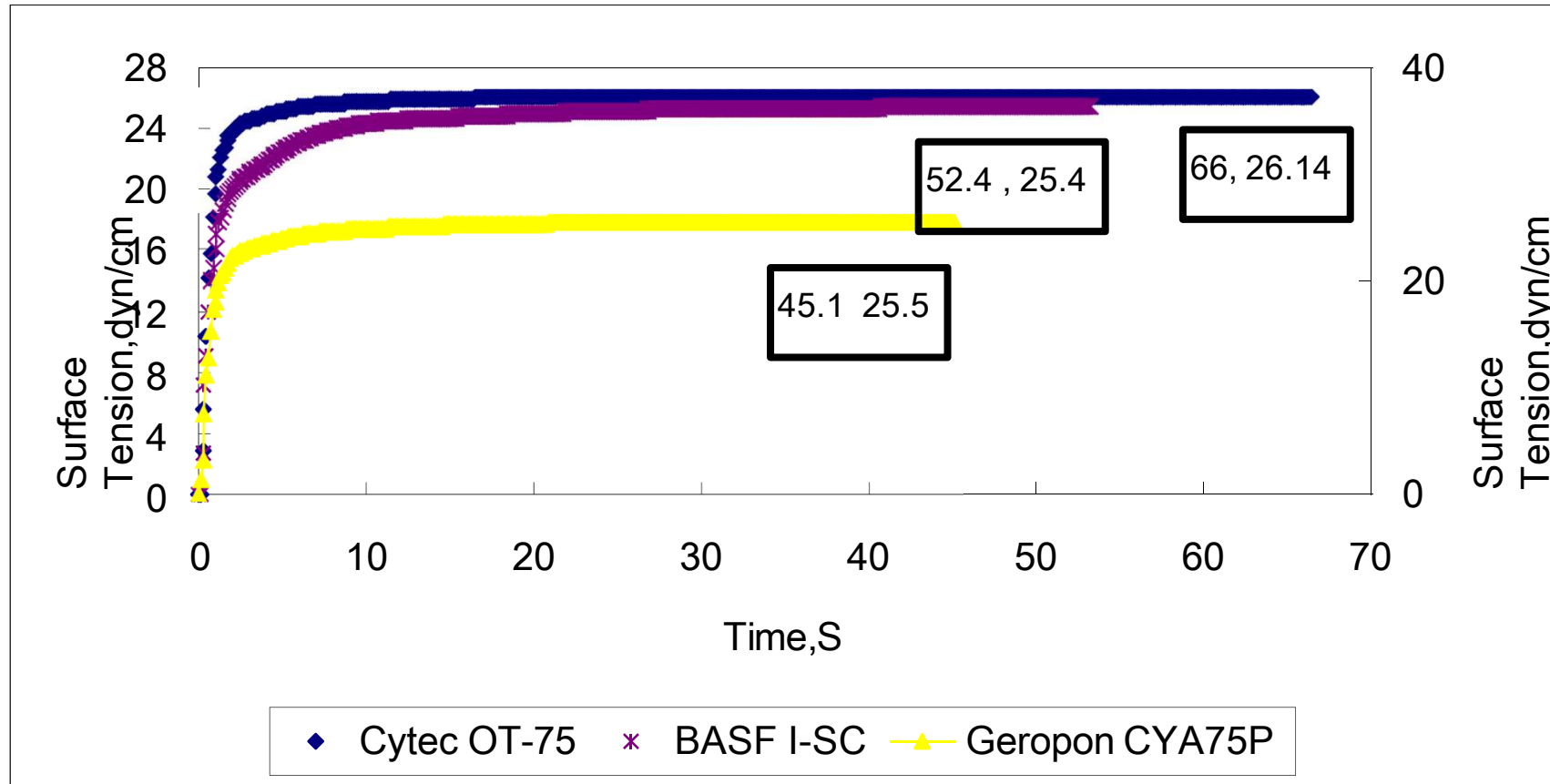
- ✓ Coat of white board: 涂布白板涂料
- ✓ Coat of carbonless copy: 无碳复写涂料
- ✓ Coat of thermal paper: 热敏涂料
- ✓ Coat of craft paper: 涂布牛卡涂料

**Novacare**



# Paper size & Press Additives

## Geropon CYA75P Dynamic Surface Tension



*Dosage: 6kg/ton in pure acrylic emulsion*

Note: The shorter of time dynamic surface tension

balance the better of wetting performance

**Novecare**

# Paper Additives---Summary

<i>Paper Additives</i>	<i>Products</i>	<i>Target customers</i>	<i>Recommend dosage(kg/ton)</i>
<i>Cooking Agents</i> 蒸煮	<i>Antarox BL225</i>	<i>CTMP plants</i> 化机浆	<i>0.1-0.4</i>
	<i>Geropon CYA75P</i>		
	<i>Rhodafac PEH</i>		
	<i>Rhodafac PEH</i>	<i>Kraft method pulping plants</i> 碱法制浆 <i>Dissolving pulp plants</i> 溶解浆	<i>0.2-0.4</i>
	<i>Rhodapon BOS</i>		
<i>Deinking Agents</i> 脱墨剂	<i>Rhodaterge DI288</i>	<i>Washing process plants</i> 洗涤	<i>1.0-2.0</i>
	<i>Rhodaterge DI309L</i>	<i>Floataion process plants</i> 浮选	<i>0.4-1.5</i>
<i>Defoamers</i> 消泡剂	<i>Rhodoline DF5800</i>	<i>Paper coat plants</i> 造纸涂布	<i>0.6-0.8</i>
	<i>Rhodoline DF642</i>		<i>0.3-0.6</i>
	<i>Rhodoline DF5688</i>		
<i>Wetting Agents</i> 润湿剂	<i>Geropon CYA75P</i>	<i>Coating with base paper or plastic, special papers</i> 塑料涂布和特种纸涂布	<i>0.2-0.8</i>