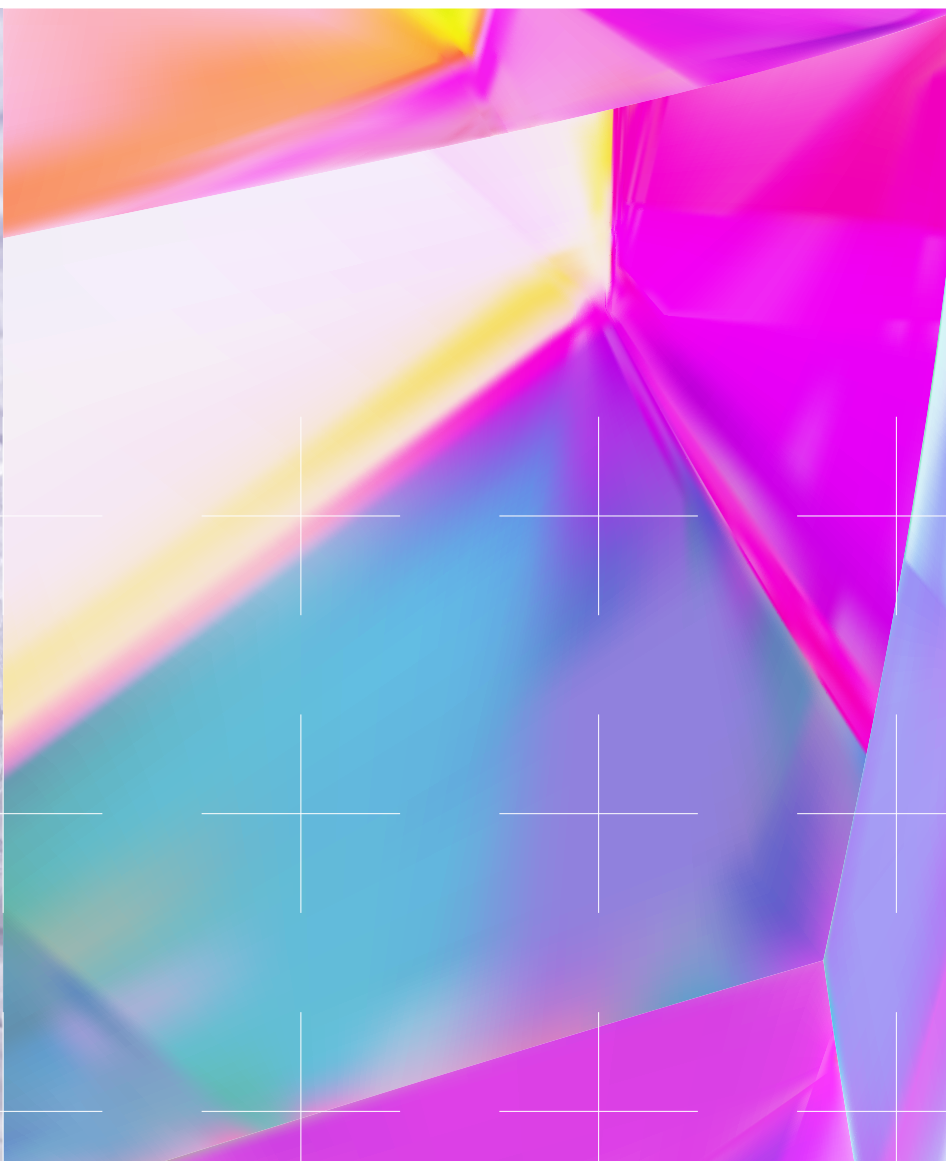
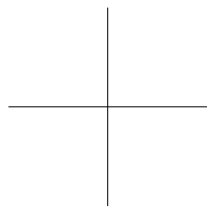


**SULZER**



# Why crystallization? Why Sulzer?

Sulzer

## The benefits of crystallization



가  
가  
가  
Purification Profile



가  
Thermal Stress  
Degradation  
Operation safety



가  
가  
가  
(Layer Crystallization)



3-6

## The benefits of working with us



가  
(Static crystallization, Falling film crystallization, Suspension crystallization)  
Quality  
Recovery yield

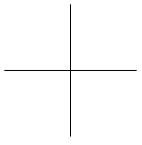


가  
가  
가  
Capability  
Lab/piloting



가  
Crystallization  
Mass transfer  
Distillation





가

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50+

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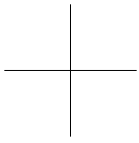
300+

---

80+

Monomer, ,  
20

Melt crystallization .



# Application

24

:

가

benzyl benzoate  
Operational Excellence

가

Application

Technical Director at Wuhan Youji, comments:

" Sulzer가

. Sulzer

가

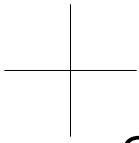
."

Youji

Two benzoic acid falling film crystallizers

Product ready for the market





# Sulzer crystallization

/

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"Chemical Engineering Magazine"

, 03/2021

"

가

, Crystallization

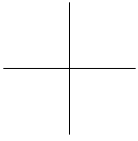
가

Crystallization

Biomaterial

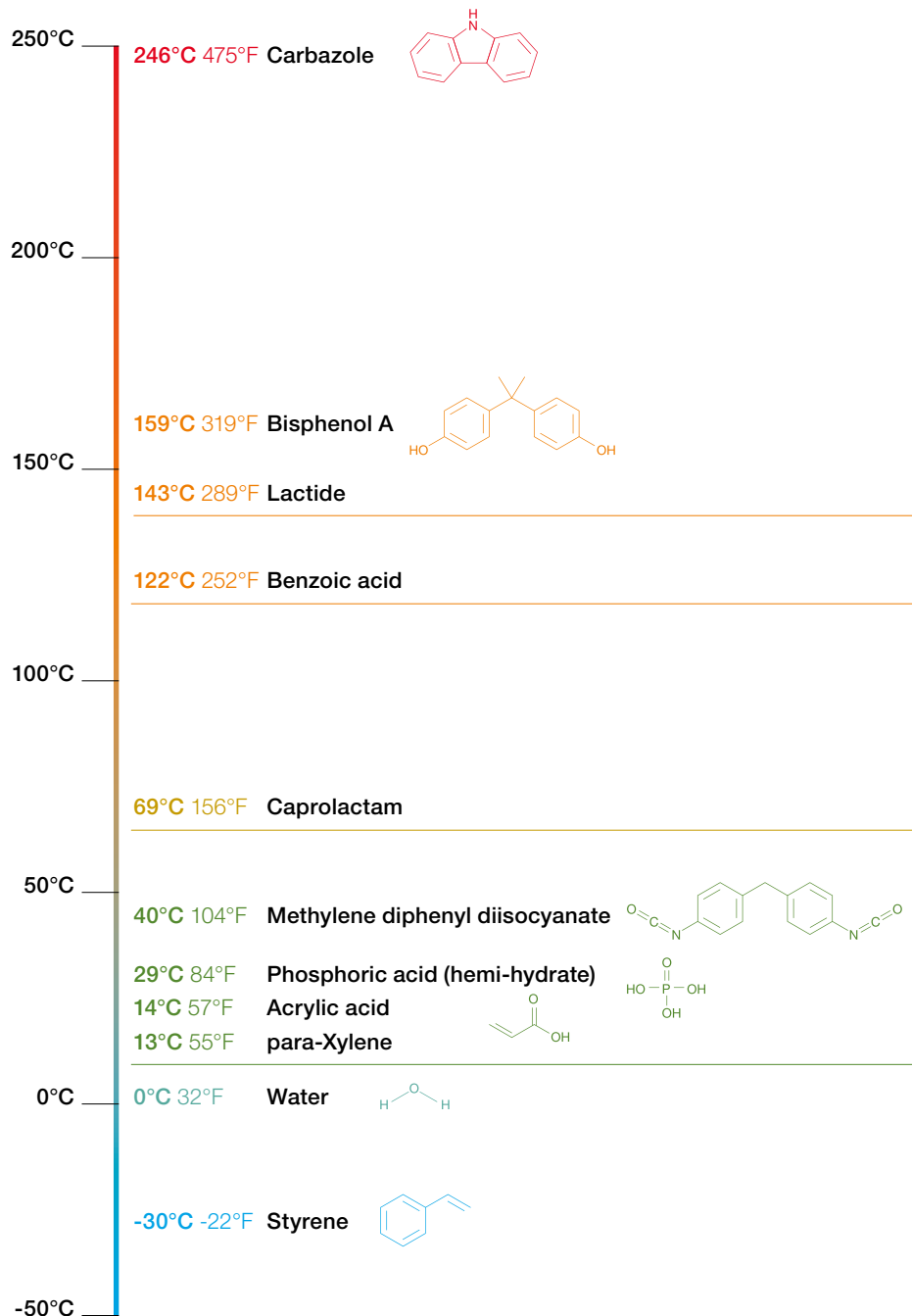
가

"



# Application

Benzy benzoate, fatty acids, hydrazine, isopulegol, monochloroacetic acid, naphthalene, orthophenyl phenol, para-cresol, paraffin, para nitrochlorobenzene, paraphenylenediamine  
Sulzer Melt Crystallization



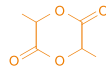


Bisphenol A plant

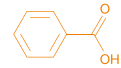


Acrylic acid plant

Sulzer 90 Lactide Crystallization  
(L-, D- and meso-lactide)



Benzoic acid  
Falling film crystallization  
99.99wt%

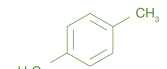


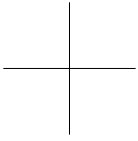
Nylon6  
Caprolactam  
Falling film crystallization  
Caprolactam



PET  
Melt crystallization  
(Methanolysis)  
DMT purification

(  
p-Xylene  
Sulzer  
가  
Crystallization





?

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Industrial Crystallization  
Crystal  
layer

, Crystal  
가

mother liquor  
. Crystal

Crystal  
suspension

crystal

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### Crystallization in suspension

Driving force

Crystal

Supersaturation

, Sulzer

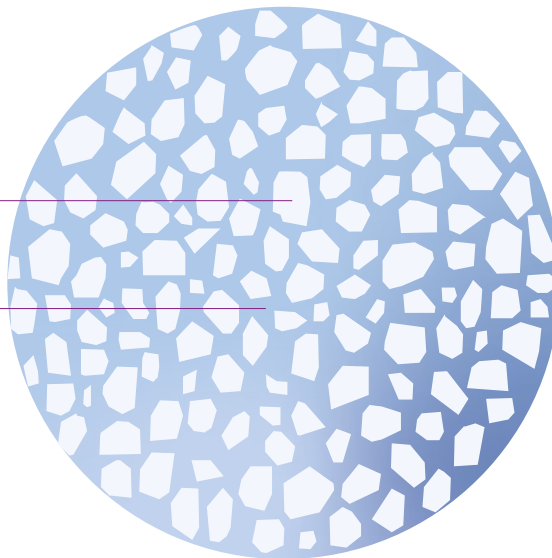
Wash Column  
mother liquor ( )

Suspension crystallization

/  
back washing

Crystal

Melt







Sulzer

3가 Crystallization

>

>

>

>

가

### Layer crystallization

Crystal

가

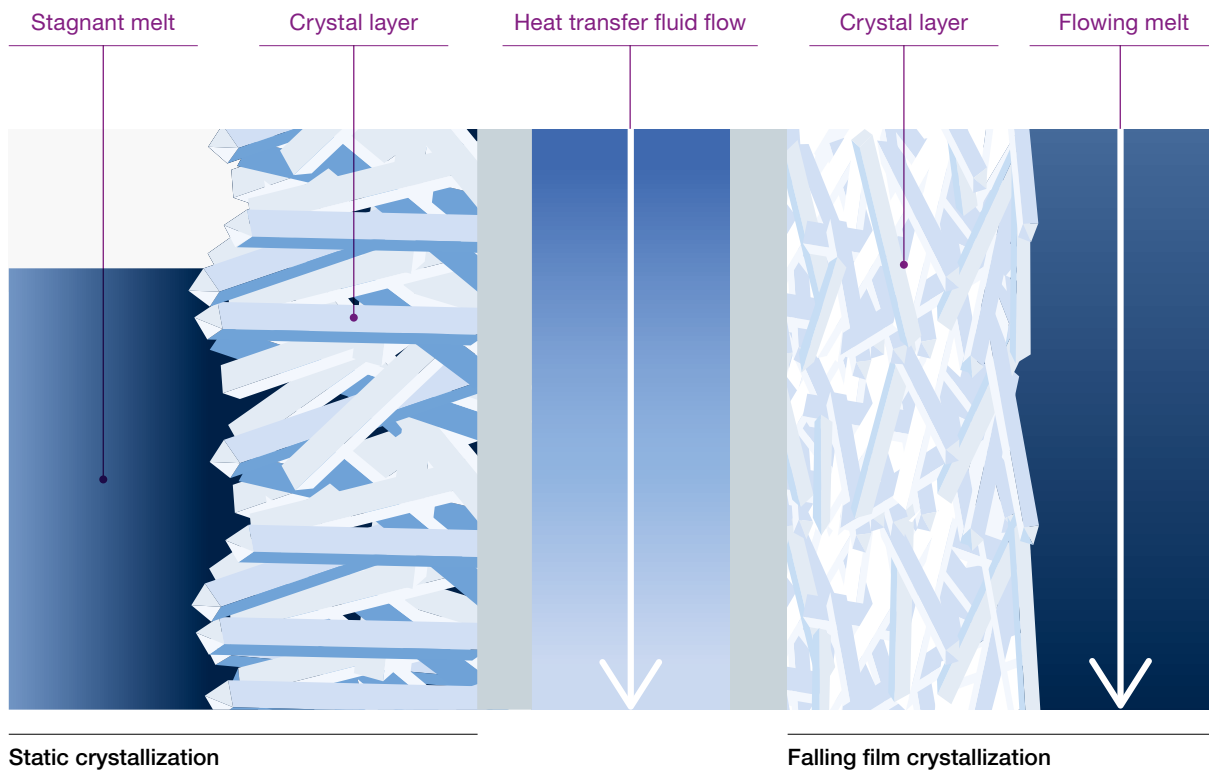
crystallization

static

falling film

. Layer

Crystallization



Static crystallization

Falling film crystallization

가

Product가

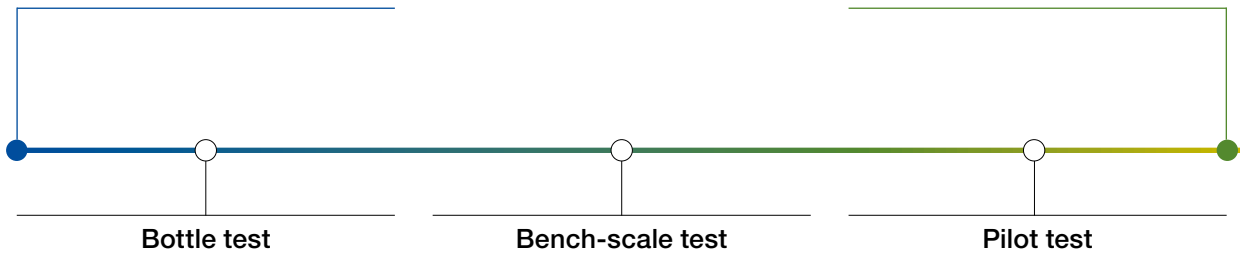
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# Your project journey with Sulzer

## The first steps

From your idea

To your customized crystallization solution



Bottle test

Bench-scale test

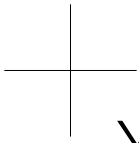
Pilot test



Test	Feasibility	Preliminary process Design	Full-scale Heat / mass transfer elements
	Melt Crystallization	Business case	가 Pilot unit (100 – 800kg)
	가	가	가
			Scaling up Equipment list data
			Preliminary PFD, Plant performance Detailed proposal

가

가

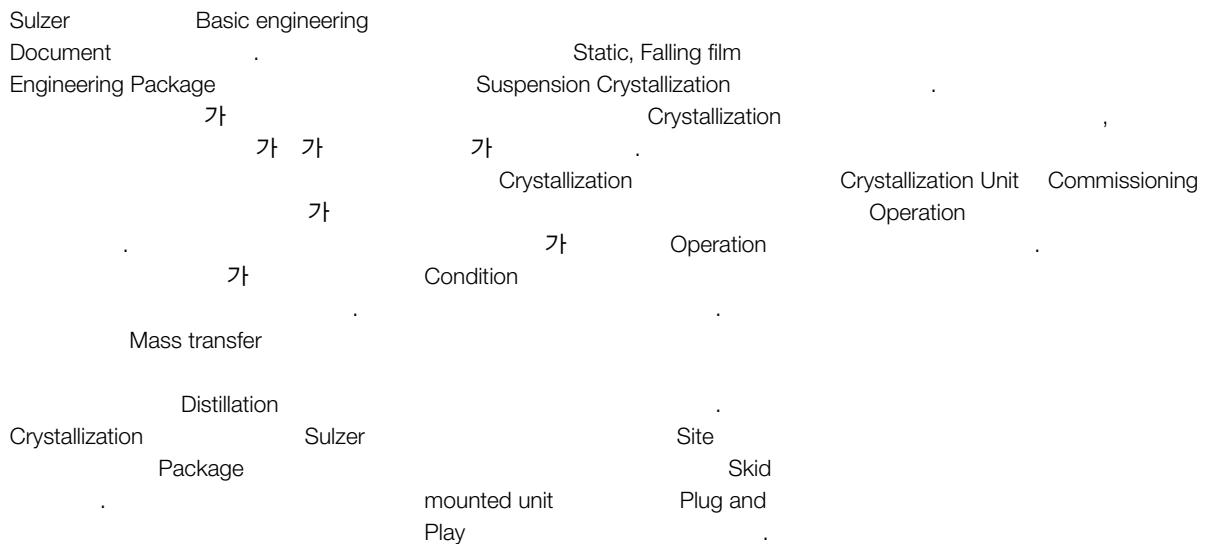
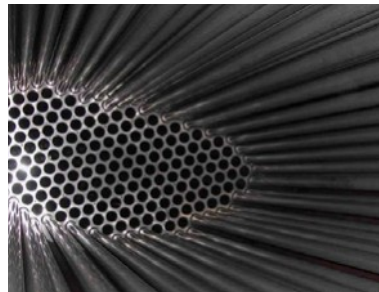
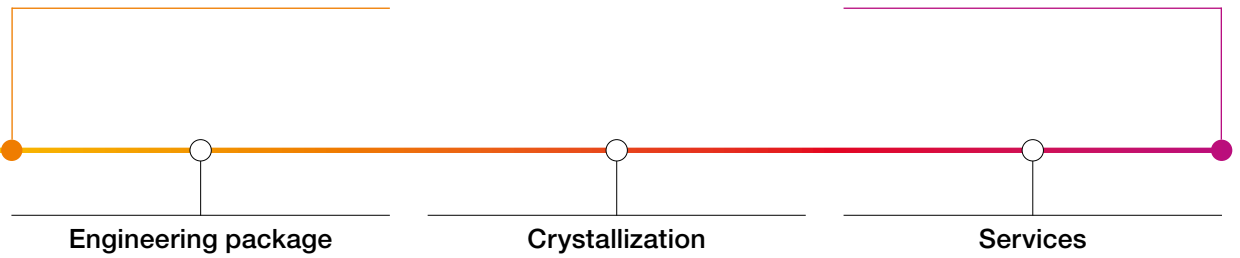


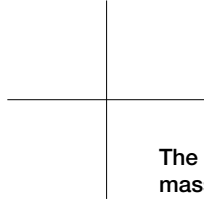
# Your project journey with Sulzer

## The idea becomes reality

From your customized crystallization solution

To the market





**The Sulzer Chemtech division is the global market leader in innovative mass transfer, static mixing and polymer solutions for petrochemicals, refining and LNG.**

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Chemtech is also leading the way in ecological solutions such as biopolymers as well as textile and plastic recycling, contributing to a circular economy. Our product offering ranges from technology licensing to process components all the way to complete separation process plants. Customer support ranges from engineering and field services to tray and packing installation, tower maintenance, welding and plant turnaround projects – ensuring minimal downtime.

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