



AERTUO Huizhou New Materials Co., Ltd.

UPR Product Brochure

Export Edition

Premium Resins. Smart Selection. Hassle-Free Export.

2026



**Aertuo (Huizhou)
New Materials Co., Ltd.**

Company at a Glance

52

Grades,
13 Product Lines



Factory Direct,
ISO Certified
Production



Full Compliance,
FORM E, MSDS,
COA, DG Shipping



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02 / FRP & MARINE SESINS

GENERAL FRP, MARINE & CORROSION-RESISTANT RESINS

VERSATILE PERFORMANCE FOR FRP, MARINE & CORROSION-RESISTANT APPLICATIONS

Reliable fiber wet-out, balanced mechanical performance, and application-specific resin systems for general FRP, marine structures, and corrosion-resistant composite applications.

01 MARINE & STRUCTURAL PARTS

Recommended:
AT-MAR-03 / AT-FRP-07

AT-MAR-03: Marine structural resin
AT-FRP-07: Long pot life hand lay-up resin



02 COOLING TOWER COMPONENTS

Recommended:
AT-FRP-02



03 CHEMICAL STORAGE TANKS & PIPES

Recommended:
AT-MAR-04 / AT-FRP-03

AT-MAR-04: Vinyl ester corrosion-resistant resin
AT-FRP-03: Tank & filament winding resin



FIBER WET-OUT



STABLE REACTIVITY



BALANCED PERFORMANCE



APPLICATION VERSATILITY

FRP & MARINE RESIN SERIES

PRODUCT SELECTION & TECHNICAL DATA



MARINE / VINYL ESTER SERIES

AT-MAR-03	AT-MAR-04
MARINE STRUCTURAL RESIN	MARINE CORROSION-RESISTANT RESIN
Original grade:	Original grade:
For marine structures and structural FRP parts.	For chemical tanks, pipes, and corrosion-resistant FRP structures.

GENERAL FRP SERIES

AT-FRP-01	AT-FRP-07	AT-FRP-02	AT-FRP-03
STANDARD HAND LAY-UP	LONG POT LIFE HAND LAP-UP	HIGH-STRENGTH STRUCTURAL	TANK & FILAMENT WINDING
For general FRP parts and atandard structural components.	Original grade: For large-area hand lay-up and sandwich structures.	For boat hulls, cooling towers, and high-strength FRP structures.	For FRP tanks, pipes, and general winding applications.

MARINE / VINYL ESTER			GENERAL FRP				
PROPERTY	AT-MAR-03	AT-MAR-04	PROPERTY	AT-FRP-01	AT-FRP-07	AT-FRP-02	AT-FRP-03
VISCOSITY AT 25°C	—	384 mPa·s	VISCOSITY AT 25°C	0.45–0.60 Pa·s	1.9–2.1 Pa·s	0.82–1.25 Pa·s	0.40–0.60 Pa·s
GEL TIME	—	33–34 min	GEL TIME	13–15 min	25–32 min	6–12 min	27–30 min
SOLID CONTENT	—	—	SOLID CONTENT	57–62%	64.37%	58–64%	62–68%
BARCOL HARDNESS	≥40	≥40	BARCOL HARDNESS	≥40	≥40	≥48	≥40
TENSILE STRENGTH	≥70 MPa	≥60 MPa	TENSILE STRENGTH	≥55 MPa	≥55 MPa	≥78 MPa	≥70 MPa
FLEXURAL STRENGTH	≥110 MPa	≥100 MPa	FLEXURAL STRENGTH	≥96 MPa	≥100 MPa	≥115 MPa	≥110 MPa
ELONGATION AT BREAK	≥4.0%	≥2.0%	ELONGATION AT BREAK	≥4.0%	≥2.0%	≥3.2%	≥4.0%
HDT	≥70°C	≥70°C	HDT	≥75°C	≥70°C	≥75°C	≥70°C

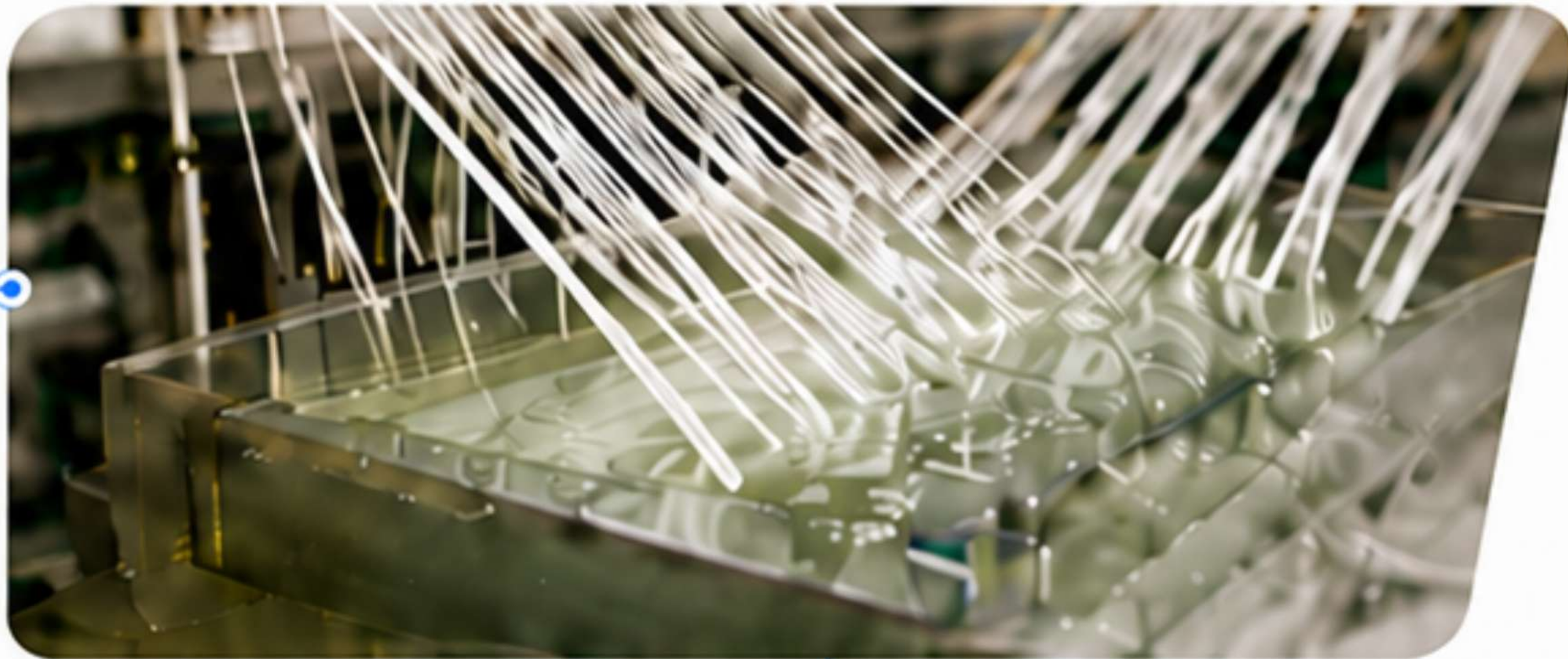
Additional technical data and grade-specific curing instructions are available in the latest TDS.

Full TDS, MSDS and COA are available upon request.

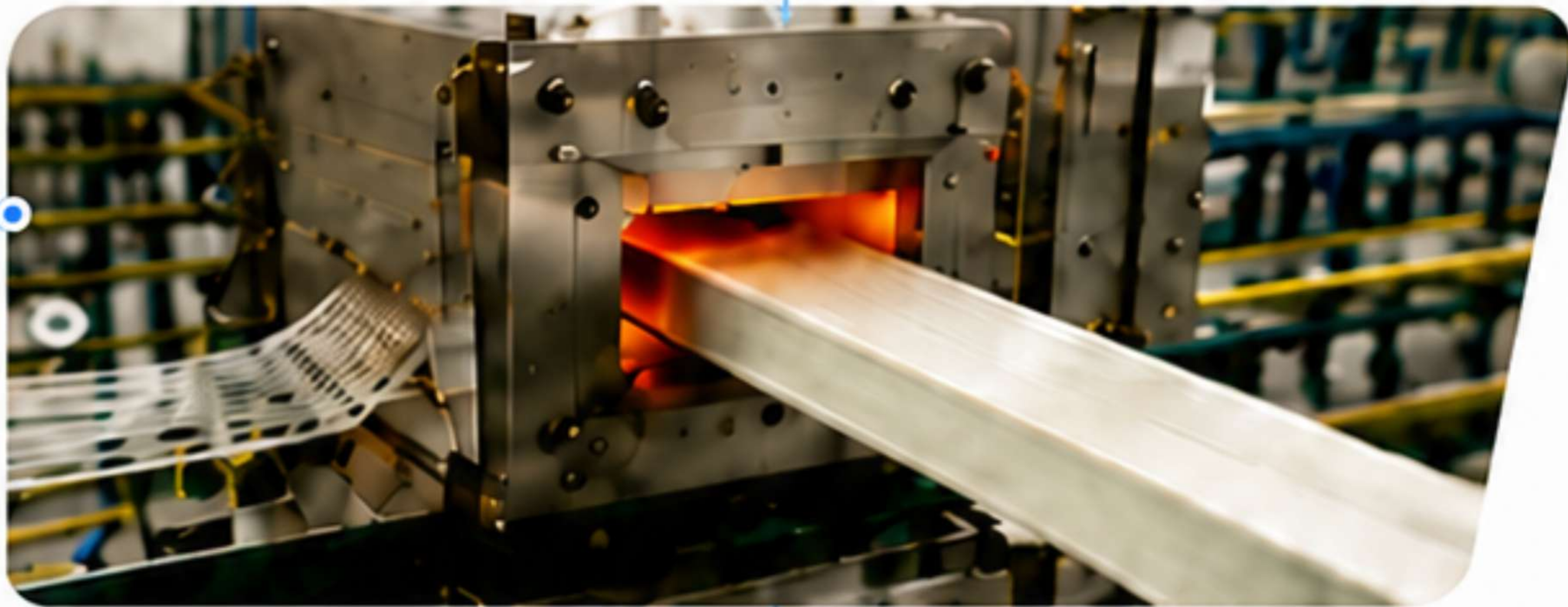
THE PRECISION OF CONTINUOUS FORMING

From fiber wet-out to finished profile, engineered for stable, repeatable pultrusion.

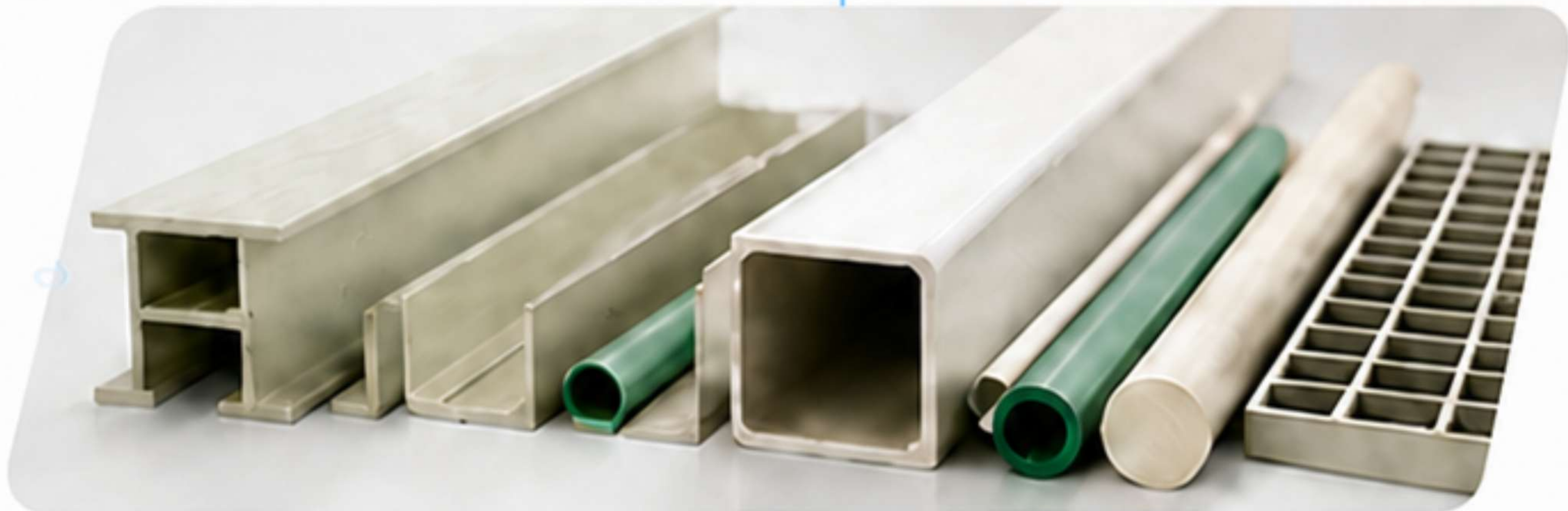
01 /
FIBER WET-OUT



02 /
CONTINUOUS FORMING



03 /
FINISHED PROFILES



-  STRUCTURAL PROFILES
-  GRATINGS & WALKWAYS
-  CABLE TRAYS
-  INSULATION COMPONENTS

AT-PUL SERIES

PULTRUSION RESINS

SELECT BY PROCESS PRIORITY

Four engineered resin grades for heat resistance, balanced production, surface quality, and application flexibility.

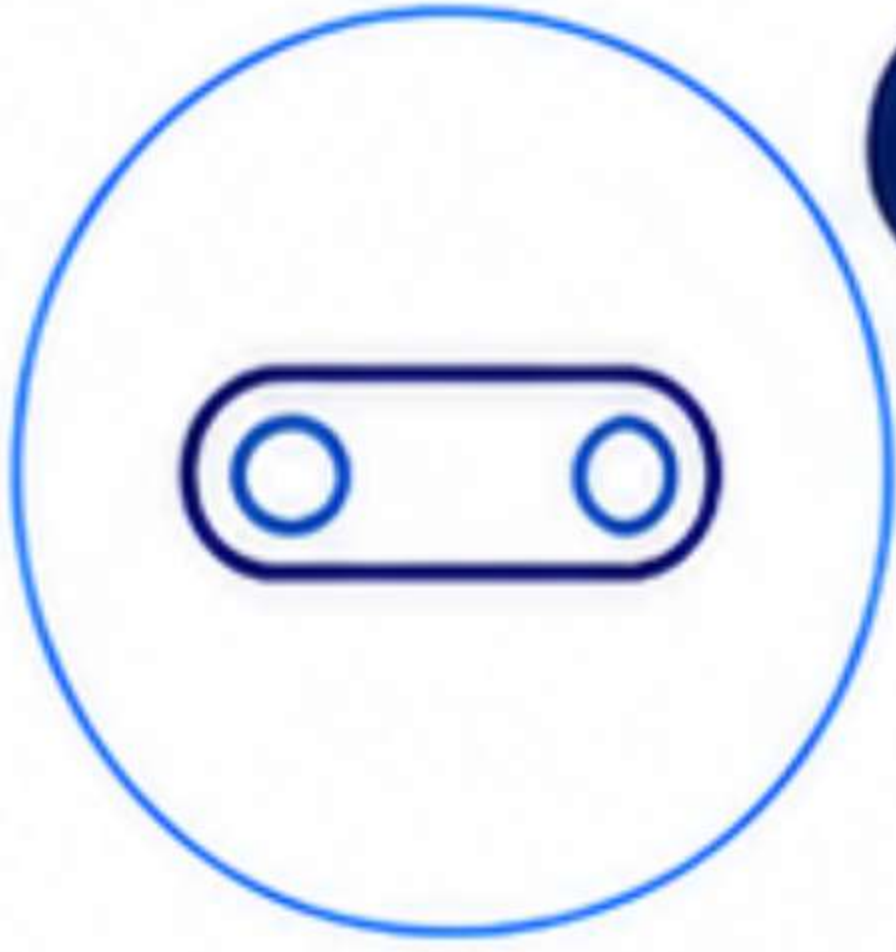


01 AT-PUL-01
HIGH-TEMPERATURE
PULTRUSION

High thermal performance for demanding structural profiles.

HDT ≥120°C

High-temperature structural profiles



02 AT-PUL-02
GENERAL
PULTRUSION

Balanced processing and mechanical performance for standard profiles, gratings, and cable trays.

General pultrusion production



03 AT-PUL-03
LOW-SHRINKAGE
PULTRUSION

For low-shrinkage profiles requiring good surface quality and high elongation.

ELONGATION AT BREAK ≥6.0%

Flexible profiles and low-shrinkage applications



04 AT-PUL-04
DUAL-PURPOSE
PULTRUSION

For pultruded profiles and general FRP applications requiring water resistance, weather resistance, and high gloss.

WATER & WEATHER RESISTANCE

Pultrusion and general FRP processing

PROFILE OUTPUTS

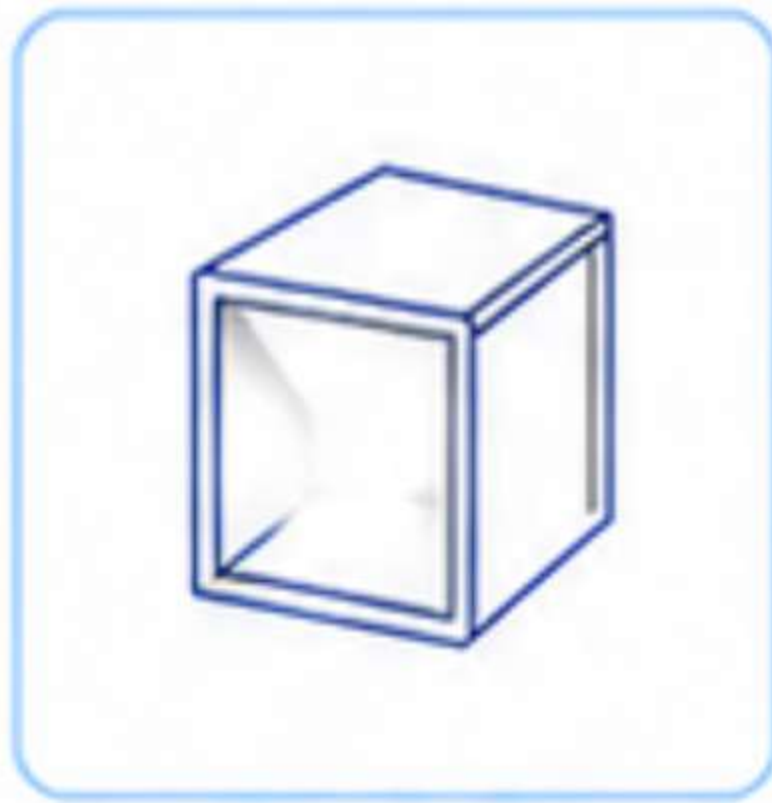
I-BEAMS · CHANNELS · GRATINGS · TRAYS · RODS · TUBES



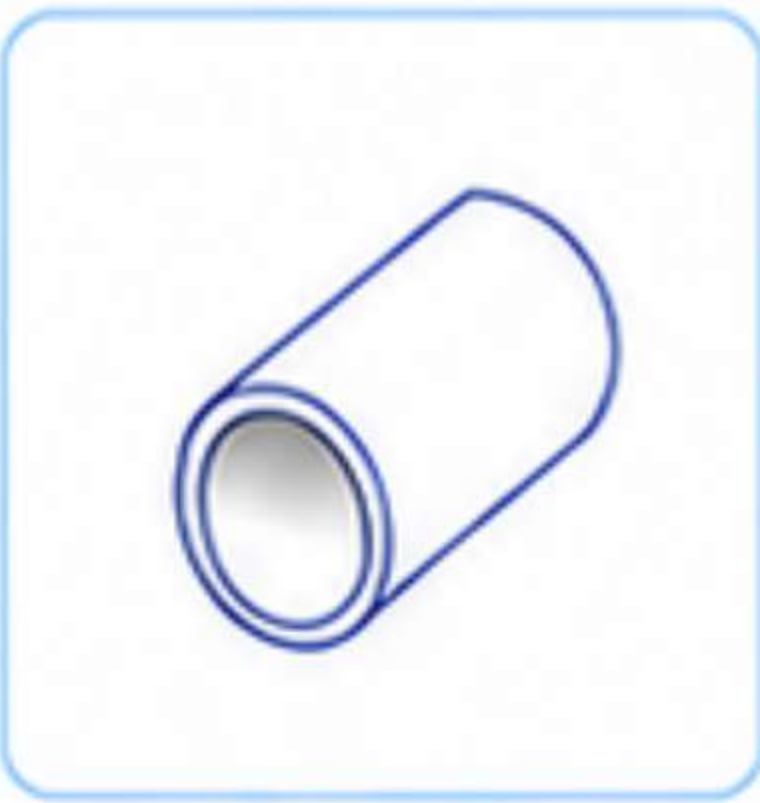
I-BEAM



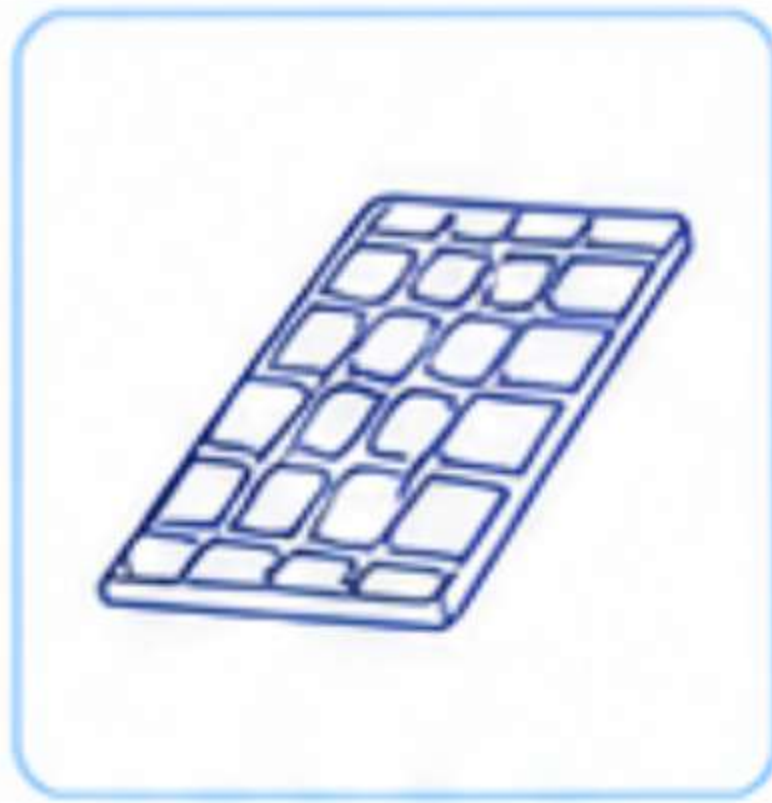
CHANNEL



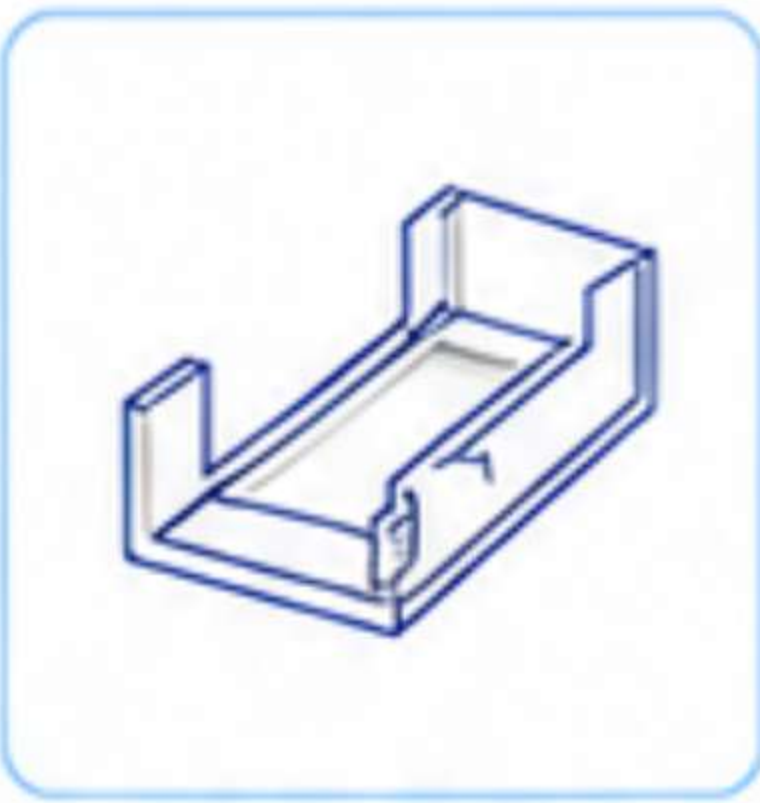
SQUARE TUBE



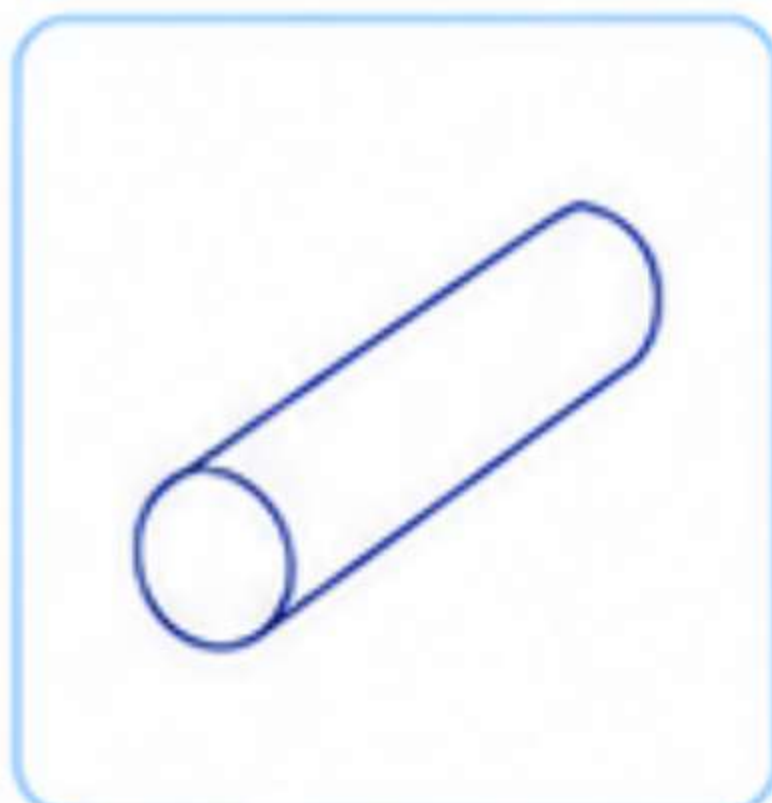
ROUND TUBE



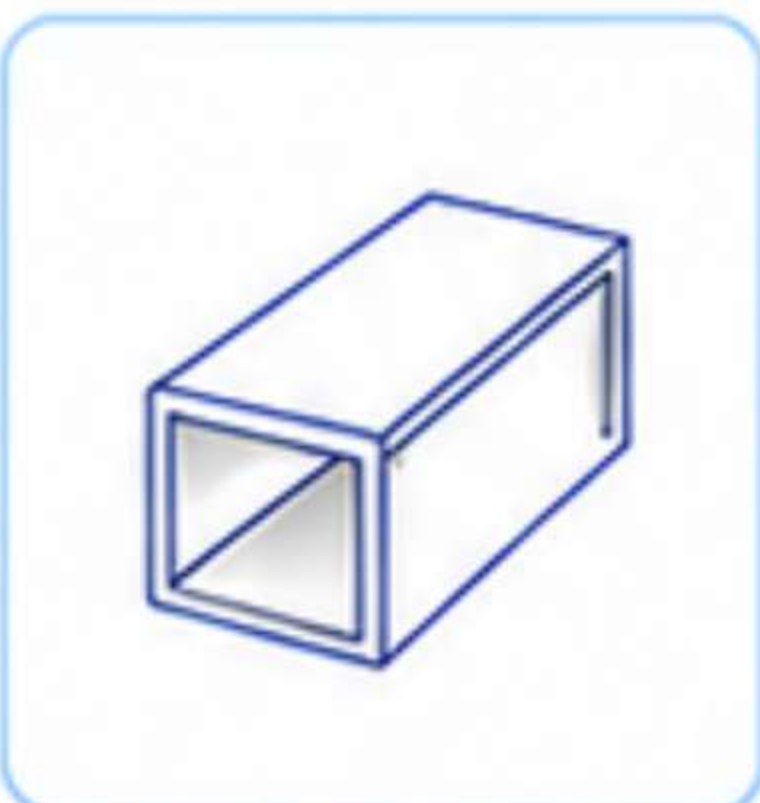
FRP GRATING



CABLE TRAY



INSULATION ROD



RECTANGULAR PROFILE

TECHNICAL SNAPSHOT

PROPERTY	AT-PUL-01	AT-PUL-02	AT-PUL-03	AT-PUL-04
VISCOSITY AT 25°C	0.90–1.10 Pa·s	0.65–0.90 Pa·s	0.80–0.90 Pa·s	600–800 mPa·s
GEL TIME	4–10 min	4–10 min	9–10 min	10–15 min
SOLIDS CONTENT	65–72%	68–66%	65–72%	65–71%
BARCOL HARDNESS	≥50	≥48	≥42	≥36
TENSILE STRENGTH	≥70 MPa	≥65 MPa	≥45 MPa	73 MPa
FLEXURAL STRENGTH	≥120 MPa	≥120 MPa	≥95 MPa	108 MPa
ELONGATION AT BREAK	≥2.0%	≥2.3%	≥6.0%	3.2%
HDT	≥120°C	≥110°C	≥85°C	68°C

 AT-PUL-04 values are typical reference values. Please refer to the latest TDS for final specifications.

 Full TDS, MSDS and COA are available upon request.

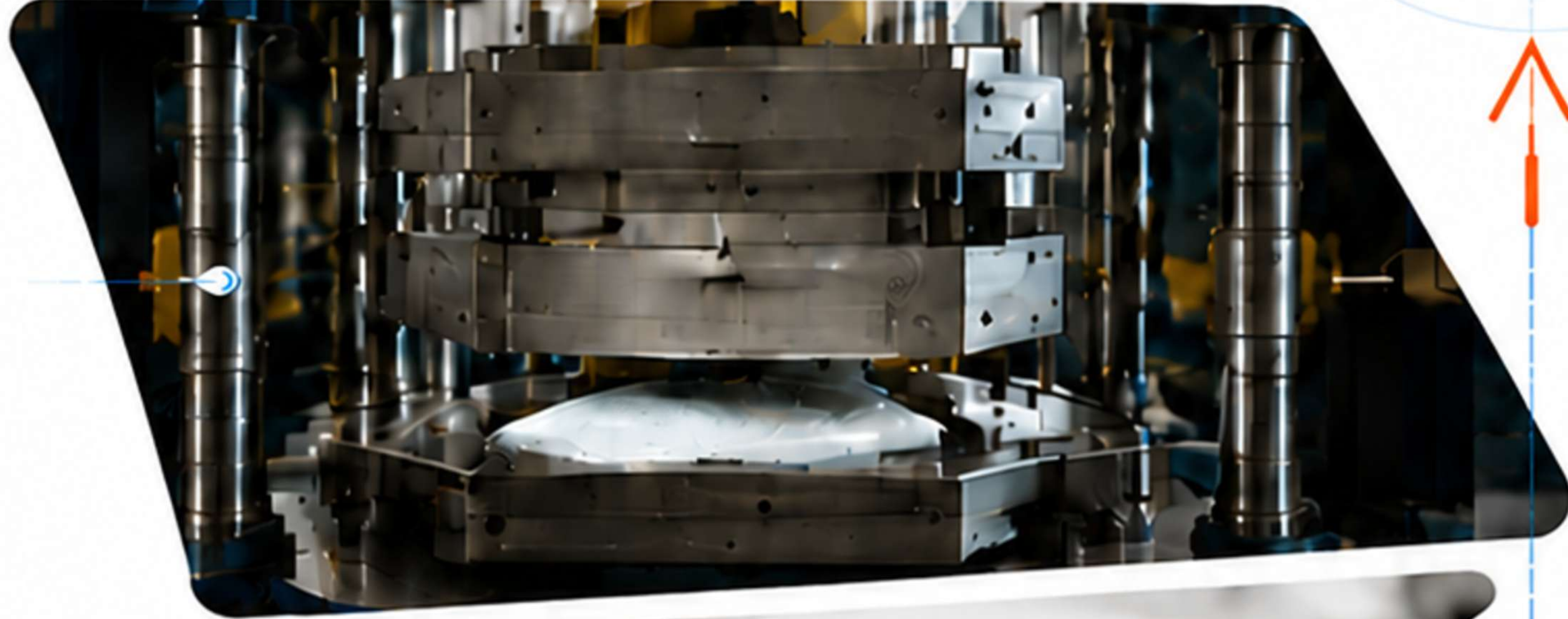
PRECISION FORMULATION
FOR HIGH-VOLUME MOULDING

Controlled thickening, surface quality, and repeatable performance for high-volume SMC and BMC production.

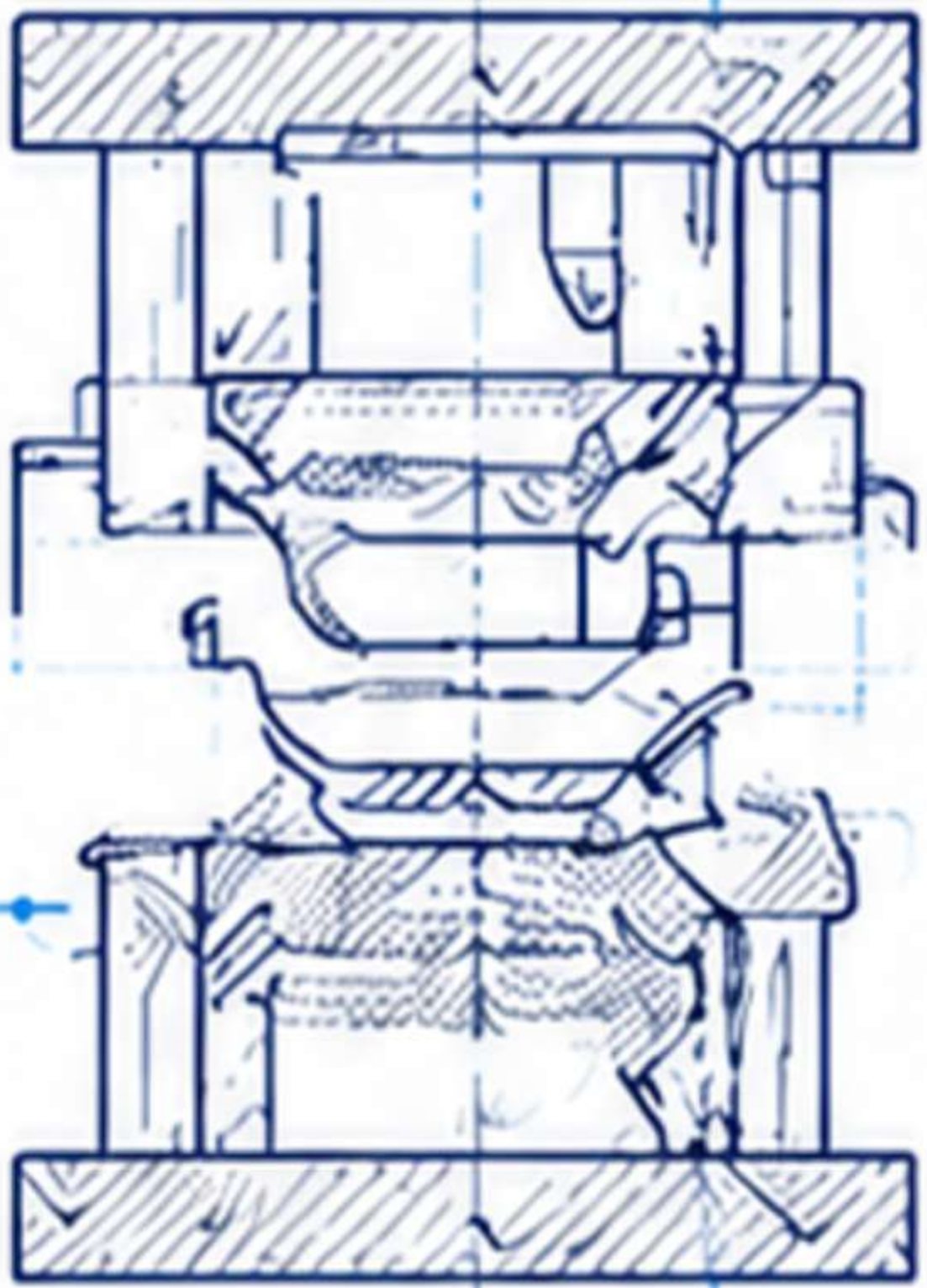
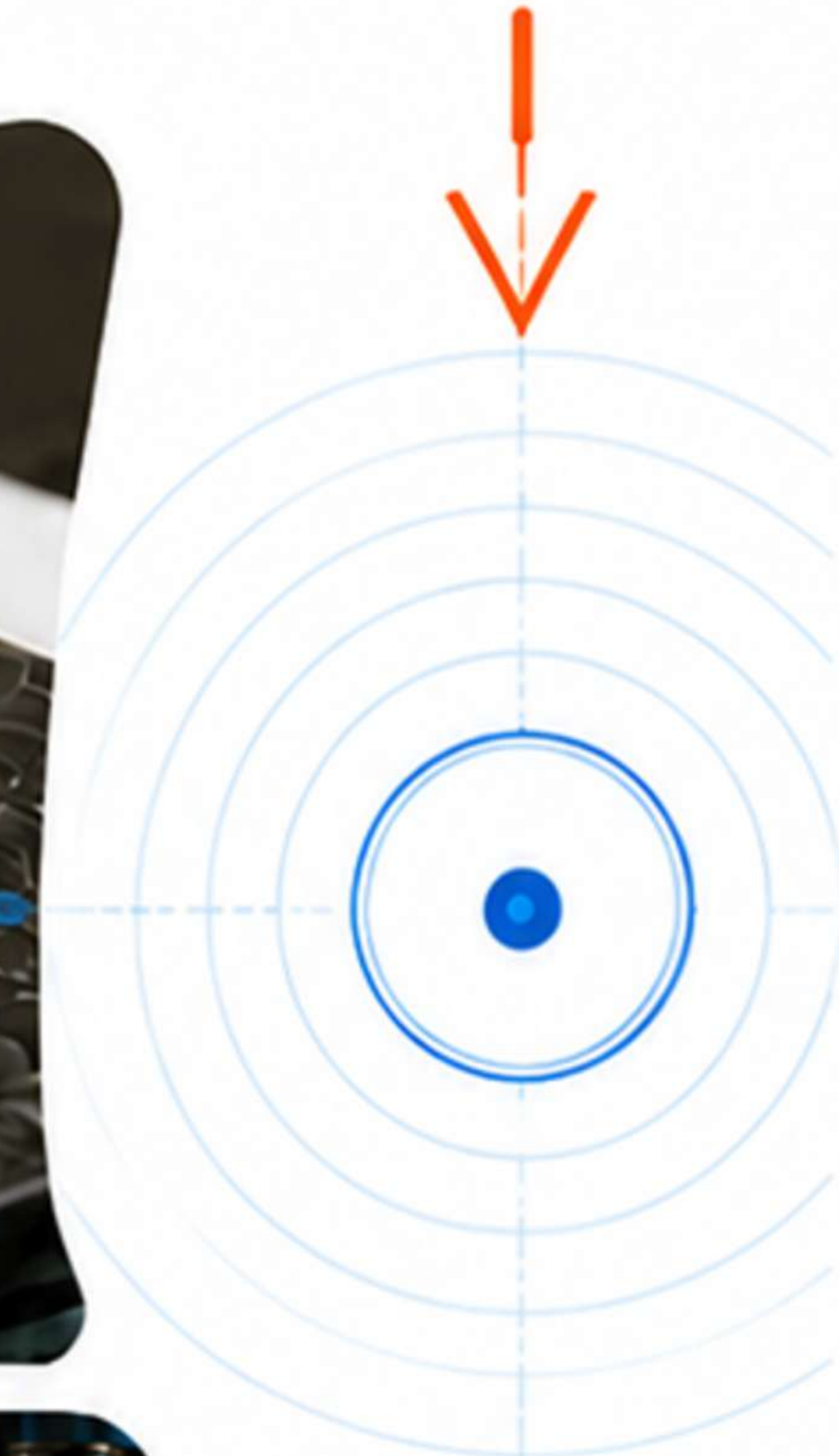
01 /
FORMULATION CONTROL



02 /
CONTROLLED
COMPRESSION



03 /
PRECISION
SURFACE



AT-SMC SERIES
SELECT BY MOULDING PRIORITY

Six export-facing grades for thermal performance, general production, electrical reliability, sanitary ware, and surface-quality control.

01

AT-SMC-01
OUTDOOR HIGH-HDT SMC

RAILWAY BOXES · RADAR COVERS ·
OUTDOOR ELECTRICAL PARTS

02

AT-SMC-02
GENERAL SMC

BALANCED PROCESSING ·
GENERAL MOULDED COMPONENTS

03

AT-SMC-03
ELECTRICAL SMC

ELECTRICAL ENCLOSURES ·
SWITCHGEAR · AUTOMOTIVE COMPONENTS

04

AT-SMC-04
STANDARD SMC

GENERAL INDUSTRIAL PARTS ·
HIGH-VOLUME MOULDING

05

AT-SMC-05
SANITARY WARE BMC

BATHTUBS · WASH BASINS ·
SHOWER TRAYS

06

AT-SMC-06
LOW-PROFILE ADDITIVE

SURFACE SMOOTHNESS ·
LOW-SHRINKAGE SYSTEMS

TECHNICAL SNAPSHOT

PROPERTY	AT-SMC-01	AT-SMC-02	AT-SMC-03	AT-SMC-04	AT-SMC-05	AT-SMC-06 SYSTEM ADDITIVE
VISCOSITY AT 25°C	1900–2100 mPa·s	REFER TO LATEST TDS	1.3–2.0 Pa·s	1.3–2.0 Pa·s	1.3–2.0 Pa·s	REFER TO LATEST TDS
GEL TIME	15–20 min	6–10 min	6–12 min	8–16 min	8–16 min	REFER TO LATEST TDS
SOLID CONTENT	65–71%	62–68%	62–68%	62–68%	62–68%	REFER TO LATEST TDS
BARCOL HARDNESS	40	40	40	40	40	NOT APPLICABLE
TENSILE STRENGTH	58 MPa	60 MPa	60 MPa	60 MPa	60 MPa	NOT APPLICABLE
FLEXURAL STRENGTH	96 MPa	90 MPa	90 MPa	90 MPa	90 MPa	NOT APPLICABLE
ELONGATION AT BREAK	1.40%	3.0%	3.0%	3.0%	3.0%	NOT APPLICABLE
HDT	≥109°C	75°C	85°C	75°C	75°C	NOT APPLICABLE

AT-SMC-06 is a low-profile additive for SMC/BMC systems.
Refer to the latest TDS for final formulation guidance.

Full TDS, MSDS and COA are available upon request.



AUTOMOTIVE PARTS



ELECTRICAL
ENCLOSURES



RAILWAY
SIGNAL BOXES



SANITARY WARE

CONTROLLED FLOW. RELIABLE PROTECTION.

Thixotropic stability, reliable layer bonding, and marine-oriented performance for demanding FRP fabrication.

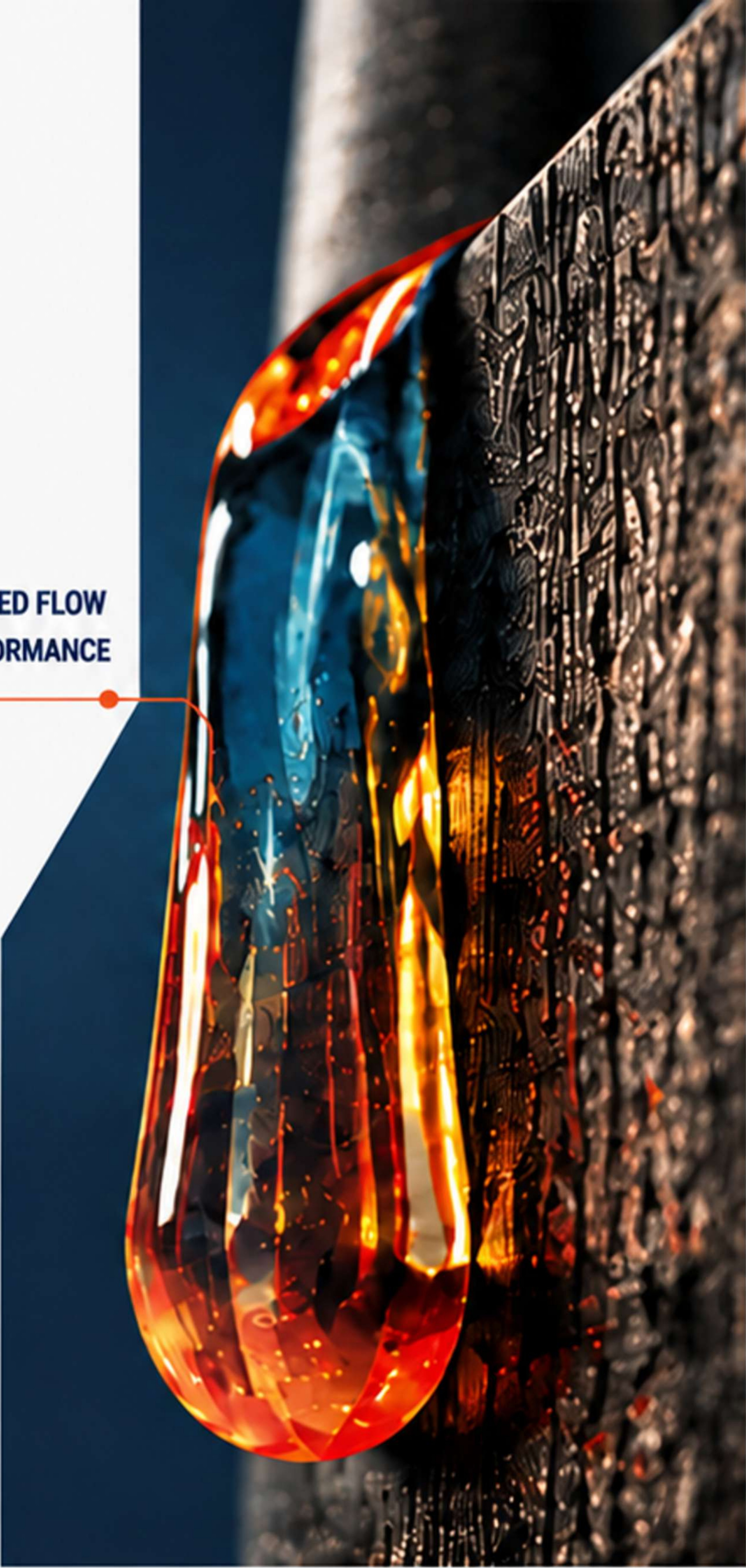


02 / MARINE FABRICATION
HAND LAY-UP · SPRAY-UP



03 / VERTICAL FRP FABRICATION
COOLING TOWERS · TANKS

01 / CONTROLLED FLOW
ANTI-SAG PERFORMANCE



AT-THX / AT-MAR SERIES SELECT BY APPLICATION BEHAVIOR

Choose by surface stability, curing speed, bonding requirements, and marine application.

01

CONTROLLED
VISCOSITY



AT-THX-01

STANDARD PRE-PROMOTED THIXOTROPIC

For standard hand lay-up and spray-up FRP fabrication on inclined or vertical surfaces.

THIXOTROPIC INDEX

2.5–2.8

02

SURFACE
STABILITY



AT-THX-02

FAST-CURE PRE-PROMOTED THIXOTROPIC

For faster hand lay-up and spray-up production cycles and flexible FRP components.

KEY PROPERTIES

GEL TIME

8–16 min

ELONGATION AT BREAK

≥3.8%

03

LAYER
BONDING



AT-MAR-01

FLAGSHIP HULL RESIN

For FRP boat hulls, water tanks, cooling towers, and applications requiring good impregnation and improved interlaminar bonding.

KEY PROPERTIES

THIXOTROPIC INDEX

2.0–3.0

GOOD INTERLAMINAR

BONDING

04

MARINE
APPLICATION



AT-MAR-02

GENERAL BOAT-BUILDING RESIN

For FRP fishing vessels, yachts, lifeboats, and other large molded marine products using hand lay-up or spray-up processing.

KEY PROPERTIES

HAND LAY-UP · SPRAY-UP

FRP BOATS · YACHTS ·

LIFEBOATS



ANTI-SAG
BEHAVIOR

Resin stays in place on inclined and vertical surfaces without sagging.



FAST
WET-OUT

Quick wet-out improves fiber impregnation and reduces voids.



INTERLAMINAR
BONDING

Strong layer-to-layer adhesion for durable laminate performance.



MARINE &
INDUSTRIAL FRP

Engineered for marine environments and industrial structures.



SURFACE VEIL

Smooth finish and print control

RESIN-RICH LAYER

Corrosion barrier and durability

GLASS FIBER LAYERS

Structural strength

RESIN MATRIX

Load transfer and adhesion

TECHNICAL SNAPSHOT

	AT-THX-01	AT-THX-02	AT-MAR-01	AT-MAR-02
VICCOSITY AT 25°C	0.25–0.35 Pa·s	0.55–0.70 Pa.s	400–600 Pa.S	0.3–0.4 Pa.S
GEL TIME	28–33 min	8–16 min	50–60 min	11–13 min
SOLID CONTENT	60–70%	58–64%	62–68%	62–68%
THIXOTROPIC INDEX	2.5–2.8	1.5–1.8	2.0–3.0	N/A
BARCOL HARDNESS	≥45	≥42	≥40	N/A
TENSILE STRENGTH	≥60 MPa	≥50 MPa	≥60 MPa	N/A
FLEXURAL STRENGTH	≥85 MPa	≥95 MPa	≥110 MPa	N/A
ELONGATION AT BREAK	≥1.7%	≥3.8%	≥2.0%	N/A
HDT	≥70°C	≥75°C	≥70°C	N/A

AT-MAR-02 cured-body properties are not specified in the current reference sheet. Please refer to the latest TDS.

Full TDS, MSDS and COA are available upon request.

Final product selection and curing conditions should be confirmed against the latest TDS and customer application trial.

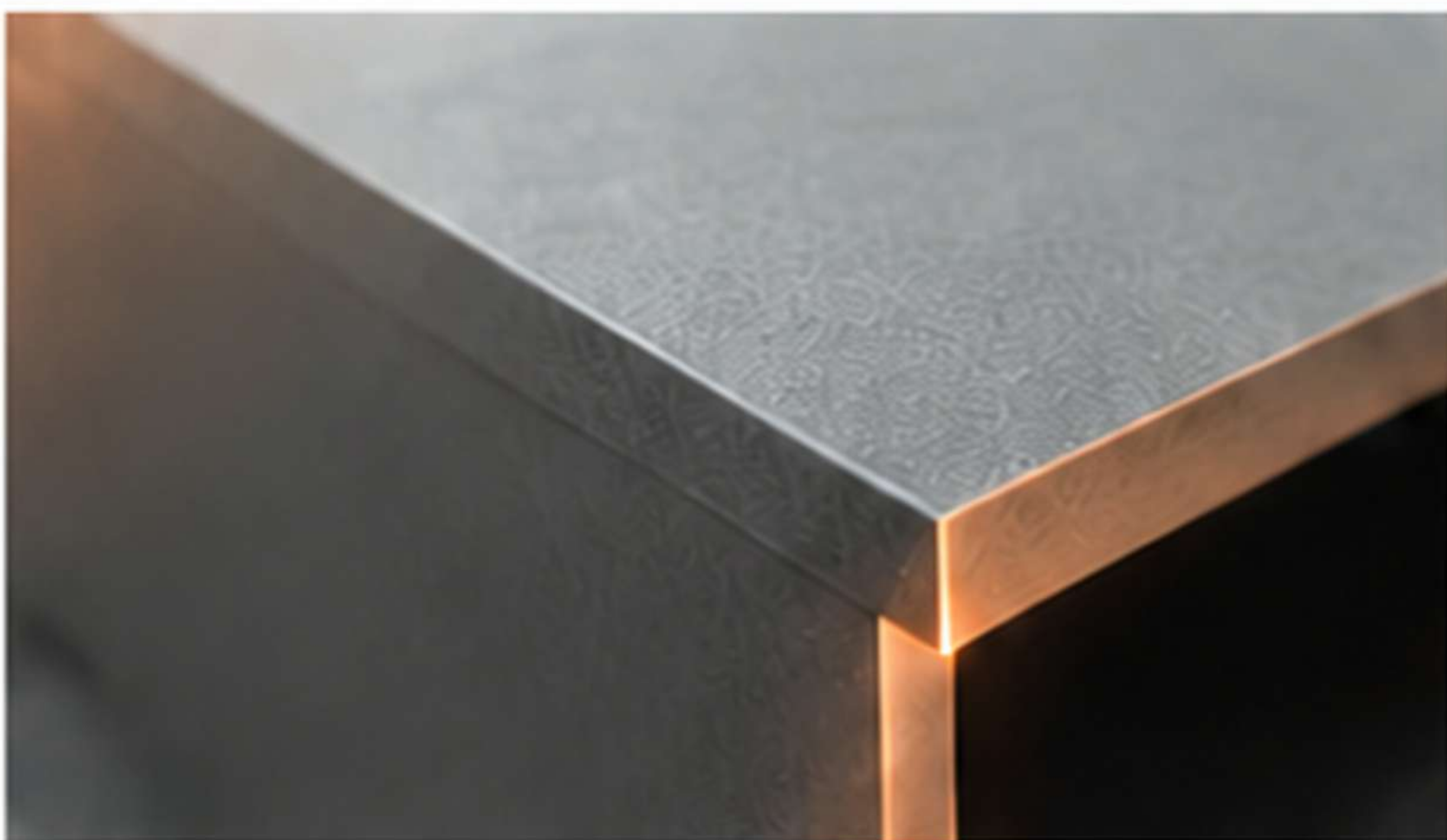
FLAME-RETARDANT PERFORMANCE FOR FRP APPLICATIONS

A controlled flame-retardant formulation for ordinary-strength FRP products used in electrical, panel, and building applications.

01 / ELECTRICAL COMPONENTS



02 / FLAME-RETARDANT PANELS



03 / BUILDING MATERIALS



FORMULATION → COMPOSITE PART → FLAME-RETARDANT APPLICATION



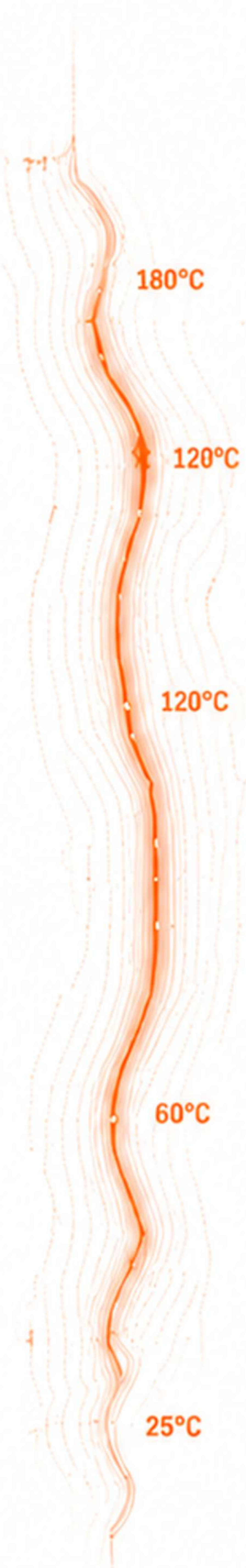
FLAME-RETARDANT FORMULATION



HEAT-RESISTANT FRP SOLUTIONS



DURABLE MECHANICAL PERFORMANCE



AT-FLM SERIES

FLAME-RETARDANT UPR

PRODUCT PROFILE

AT-FLM-01

FLAME-RETARDANT UPR

For ordinary-strength flame-retardant FRP products.

- Electrical Components •
- Flame-Retardant Panels •
- Building Materials



SELECT FOR APPLICATION NEED

FLAME-RETARDANT FORMULATION

For ordinary-strength flame-retardant FRP products.

HEAT-RESISTANT FRP SOLUTIONS

For electrical components, panels, and building-related composite applications.

TECHNICAL SNAPSHOT

PROPERTY	VALUE	UNIT	TEST METHOD
APPEARANCE	White pasty viscous liquid	—	Visual
ACID VALUE	18–24	mgKOH/g	GB2895-2008
VISCOSITY AT 25°C	0.9–1.5	Pa·s	GB7193-2008
GEL TIME	9–15	min	GB7193-2008
SOLID CONTENT	60–66	%	GB7193-2008
80°C STABILITY	≥24	h	GB7193-2008
BARCOL HARDNESS	≥46	Barcol	GB3654-2005
TENSILE STRENGTH	≥65	MPa	GB2567-2008
TENSILE MODULUS	2.0	GPa	GB2567-2008
FLEXURAL STRENGTH	≥105	MPa	GB2567-2008
FLEXURAL MODULUS	2.0	GPa	GB2567-2008
ELONGATION AT BREAK	≥2.2	%	GB2567-2008
HDT	≥100	°C	GB1634-2004

Curing system: 100 g resin + 1% Co + 2% MEKP HBO-50.

Test conditions: 23 ± 2°C; 50 ± 5% RH.

Please refer to the latest TDS before use.

Full TDS, MSDS and COA are available upon request.

DAYLIGHTING PANEL RESINS

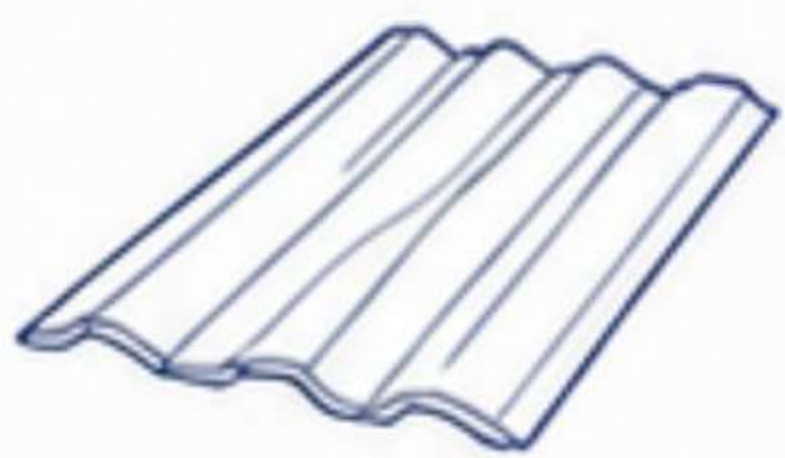
LET NATURAL LIGHT
WORK HARDER

Transparent and light-transmitting FRP solutions for roofing panels, skylights, and architectural daylighting.

01 / FACTORY ROOFS & SKYLIGHTS

02 / TRANSLUCENT PANEL STRUCTURE

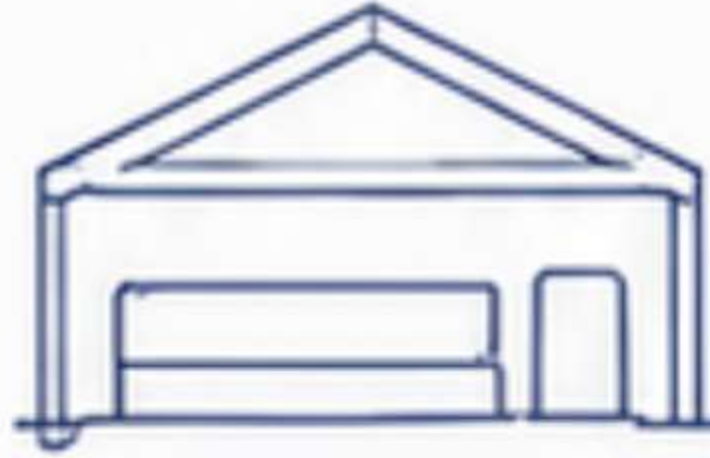
03 / FRP ROOFING PANELS



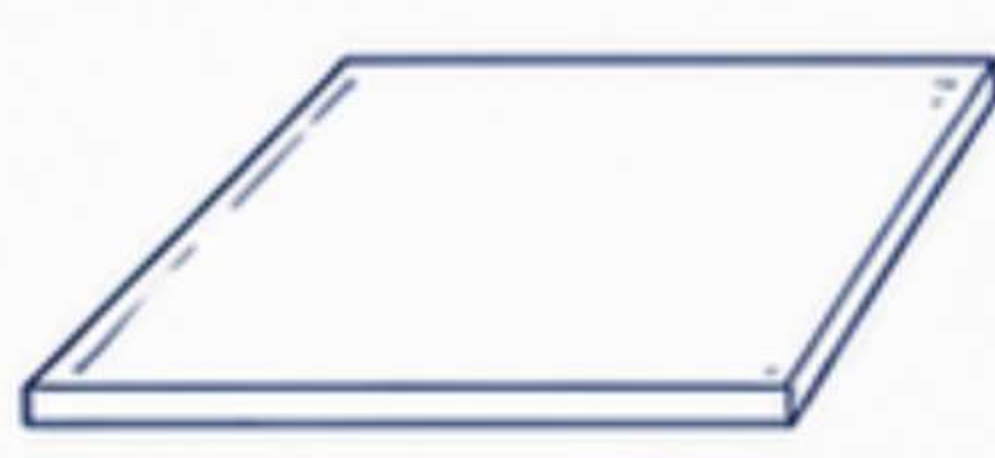
ROOFING SHEETS



SKYLIGHTS



FACTORY ROOFS



FRP FLAT PANELS

AT-FRP SERIES
DAYLIGHTING PANEL RESINS

SELECT BY PANEL PRIORITY

Three grades for transparent panel production, anti-yellowing performance, and improved toughness.

01

AT-FRP-04
DAYLIGHTING PANEL GRADE

For general FRP daylighting panels, transparent roofing sheets, and standard transparent-tile production.



GENERAL DAYLIGHTING



GOOD TRANSPARENCY



GOOD FIBER WET-OUT

02

AT-FRP-05
ANTI-YELLOWING
DAYLIGHTING GRADE

For daylighting panels requiring good transparency and improved resistance to yellowing.



ANTI-YELLOWING



GOOD TRANSPARENCY



LOW VISCOSITY

03

AT-FRP-06
TOUGH DAYLIGHTING
GRADE

For FRP flat panels and daylighting sheets requiring good transparency, mechanical strength, and improved toughness.



GOOD TOUGHNESS



GOOD TRANSPARENCY



PANEL PERFORMANCE

TECHNICAL SNAPSHOT

PROPERTY	AT-FRP-04	AT-FRP-05	AT-FRP-06
VISCOSITY AT 25°C	0.25–0.35 Pa·s	0.30–0.35 Pa·s	0.30–0.35 Pa·s
GEL TIME	11–13 min	18–23 min	15–17 min
SOLID CONTENT	57–62%	62–68%	62–68%
BARCOL HARDNESS	≥40	≥40	≥45
TENSILE STRENGTH	≥60 MPa	≥60 MPa	≥55 MPa
FLEXURAL STRENGTH	≥90 MPa	≥90 MPa	≥80 MPa
ELONGATION AT BREAK	≥1.5%	≥2.0%	≥3.0%
HDT	≥70°C	≥70°C	≥80°C
ACID VALUE	13–18 mgKOH/g	19–25 mgKOH/g	19–25 mgKOH/g

Additional technical data and grade-specific curing instructions are available in the latest TDS.
Full TDS, MSDS and COA are available upon request.

SURFACE COATING RESINS

A HARDER,
BRIGHTER FINISH

Engineered for smooth flow, refined leveling,
and durable surface appearance.

01 /
SMOOTH FLOW



02 /
DEEP GLOSS



03 /
DURABLE SURFACE



FLOW & DEFOAMING



HIGH GLOSS



SURFACE HARDNESS



SCRATCH RESISTANCE

AT-COT SERIES

SURFACE COATING RESINS

SELECT THE FINISH

Three coating grades for primer repair,
air-dry finishing, and high-gloss hard surfaces.



01



AT-COT-01
STONE PRIMER
& REPAIR COAT

For stone priming, repair,
and reinforcement
applications.

KEY PERFORMANCE FOCUS

- GOOD FLOW
- EASY SANDING
- FAST REPAIR

RECOMMENDED APPLICATIONS

- STONE PRIMER
- REPAIR
- REINFORCEMENT

02



AT-COT-02
AIR-DRY
SURFACE COAT

For high-end furniture
and marble surface
finishing.

KEY PERFORMANCE FOCUS

- AIR-DRY FINISH
- GOOD ADHESION
- HIGH GLOSS

RECOMMENDED APPLICATIONS

- FURNITURE FINISHING
- MARBLE SURFACES

03



AT-COT-03
HIGH-GLOSS
HARD COAT

For premium marble
and furniture surfaces
requiring high hardness,
scratch resistance, and
yellowing resistance.

KEY PERFORMANCE FOCUS

- HIGH HARDNESS
- SCRATCH RESISTANCE
- ANTI-YELLOWING

RECOMMENDED APPLICATIONS

- PREMIUM MARBLE
- FURNITURE SURFACES

SURFACE PERFORMANCE

	FLOW & DEFOAMING	AIR-DRY PERFORMANCE	GLOSS & FULLNESS	HARDNESS	SCRATCH RESISTANCE	YELLOWING RESISTANCE
AT-COT-01	● ● ● ●	● ●	● ●	● ●	● ●	● ●
AT-COT-02	● ●	● ● ● ●	● ● ● ●	● ●	● ●	● ●
AT-COT-03	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●

TECHNICAL SNAPSHOT

PROPERTY	AT-COT-01	AT-COT-02	AT-COT-03
ACID VALUE	17–23 mgKOH/g	17–23 mgKOH/g	17–23 mgKOH/g
VISCOSITY AT 25°C	0.45–0.60 Pa·s	1.15–1.35 Pa·s	1.15–1.35 Pa·s
GEL TIME	5–8 min	3.5–5.0 min	3–4.5 min
SOLID CONTENT	60–66%	65–71%	65–71%
BARCOL HARDNESS	REFER TO LATEST TDS	≥42	≥48
TENSILE STRENGTH	REFER TO LATEST TDS	≥65 MPa	≥70 MPa
FLEXURAL STRENGTH	REFER TO LATEST TDS	≥112 MPa	≥125 MPa
ELONGATION AT BREAK	REFER TO LATEST TDS	≥3.5%	≥2.5%
HDT	REFER TO LATEST TDS	≥58°C	≥70°C

AT-COT-01 cured properties are available in the latest TDS.

Full TDS, MSDS and COA are available upon request.

Curing system and test conditions vary by grade. Please refer to the latest TDS before use.

DESIGNED FOR SURFACES THAT LAST

Engineered resin systems for refined surfaces, durable sanitary ware, and high-performance quartz applications.

01 / QUARTZ SLAB SURFACES



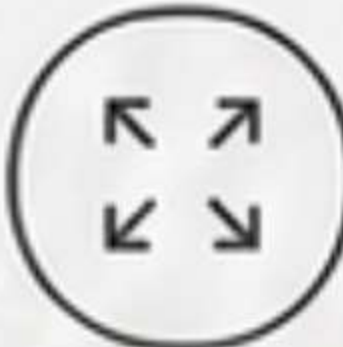
02 / SEAMLESS COUNTERTOPS & SINKS



03 / BATHS, BASINS & SANITARY WARE



HIGH FILLER COMPATIBILITY



LOW-SHRINKAGE SURFACE QUALITY



WATER & STAIN RESISTANCE



POLISHABLE FINISH

AT-STN SERIES

SURFACE SELECTION ATLAS

Select by material system, surface requirement, and final application.

ZONE 01
SOLID SURFACE & SANITARY

AT-STN-01
GENERAL ARTIFICIAL STONE
General artificial-stone panels, countertops, and decorative surfaces.

AT-STN-02
PREMIUM BATHTUB & SINK
For premium bathtubs, sinks, and high-end sanitary applications.

AT-STN-03
HIGH-GLOSS GRADE
For refined high-gloss sanitary products and premium artificial-stone countertops.

AT-STN-04
WEATHER-RESISTANT PREMIUM
For premium sanitary ware and applications requiring water, weather, and heat resistance.

Key focus:
HDT $\geq 120^{\circ}\text{C}$
High-performance surface system

Key focus:
Water resistance
Yellowing resistance
Low exotherm

Key focus:
High-gloss surface
Strong mechanical performance

Key focus:
HDT 95°C
Water and weather resistance

ZONE 02
QUARTZ SLAB SYSTEMS

AT-STN-05
HIGH-TOUGHNESS QUARTZ
For quartz slab and countertops requiring high filler loading, low shrinkage, and enhanced toughness.

AT-STN-06
HIGH-FILLER QUARTZ
For high-filled quartz-stone systems requiring cost-efficient filler accommodation and dimensional control.

AT-STN-07
LOW-VISCOSITY QUARTZ
For low-viscosity quartz formulations and automated filler mixing.

Key focus:
High filler loading
Low shrinkage
Toughness

Key focus:
High filler accommodation
Dimensional stability

Key focus:
Fast filler wet-out
Automated mixing
Easy cutting and polishing

ZONE 03
SPECIALTY CASTING

AT-STN-08
PRE-ACCELERATED ARTIFICIAL STONE
For convenient pre-accelerated artificial-stone processing and seamless solid-surface countertops.

AT-STN-09
MMA SPECIALTY RESIN
For MMA-based specialty systems requiring transparency, low shrinkage, and easy polishing.

Key focus:
Convenient processing
Seamless solid surfaces

Key focus:
MMA-based system
Transparency
Low shrinkage
Easy polishing

FLAGSHIP TECHNICAL SNAPSHOT

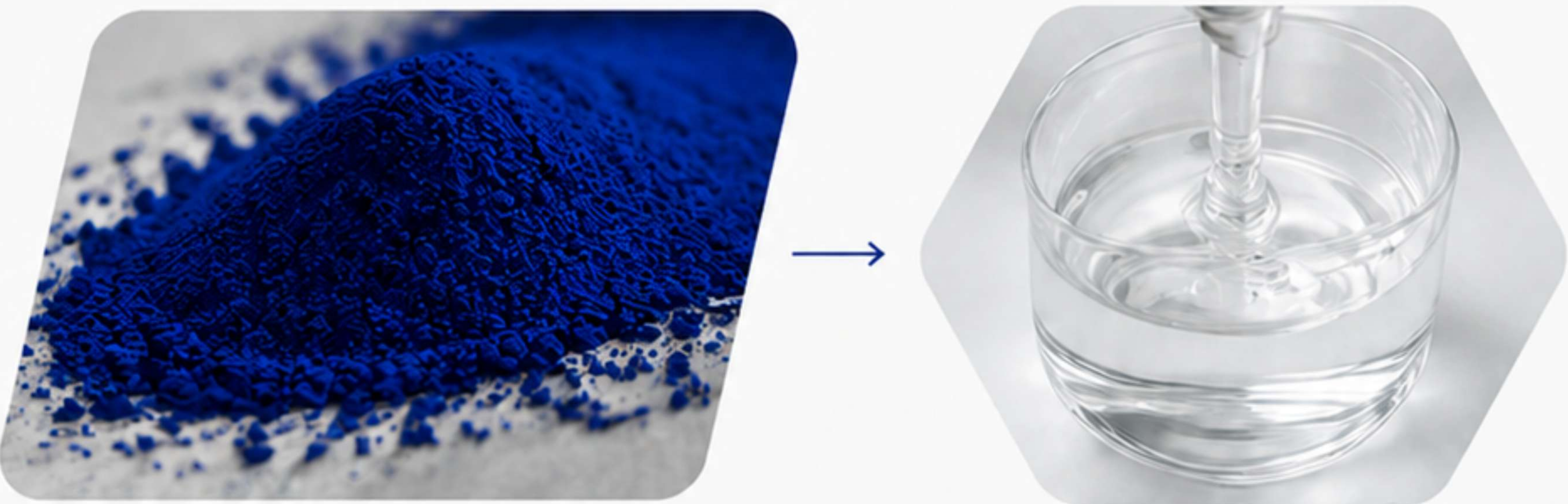
	AT-STN-01	AT-STN-02	AT-STN-03	AT-STN-04
VISCOSITY AT 25°C	0.90–1.10 Pa·s	0.65–0.85 Pa·s	0.90–1.10 Pa·s	700–900 mPa·s
GEL TIME	4–10 min	6–8 min	10–15 min	10–15 min
SOLID CONTENT	65–72%	65–71%	65–71%	65–71%
BARCOL HARDNESS	≥ 50	≥ 43	≥ 44	40
TENSILE STRENGTH	$\geq 70\text{ MPa}$	$\geq 75\text{ MPa}$	$\geq 83\text{ MPa}$	70 MPa
FLEXURAL STRENGTH	$\geq 120\text{ MPa}$	$\geq 105\text{ MPa}$	$\geq 120\text{ MPa}$	95 MPa
ELONGATION AT BREAK	$\geq 2.0\%$	$\geq 3.5\%$	$\geq 3.2\%$	2.5%
HDT	$\geq 120^{\circ}\text{C}$	$\geq 65^{\circ}\text{C}$	$\geq 64^{\circ}\text{C}$	95°C

AT-STN-04 values are typical reference values.
Please refer to the latest TDS for final specifications.

Full TDS, MSDS and COA are available upon request.

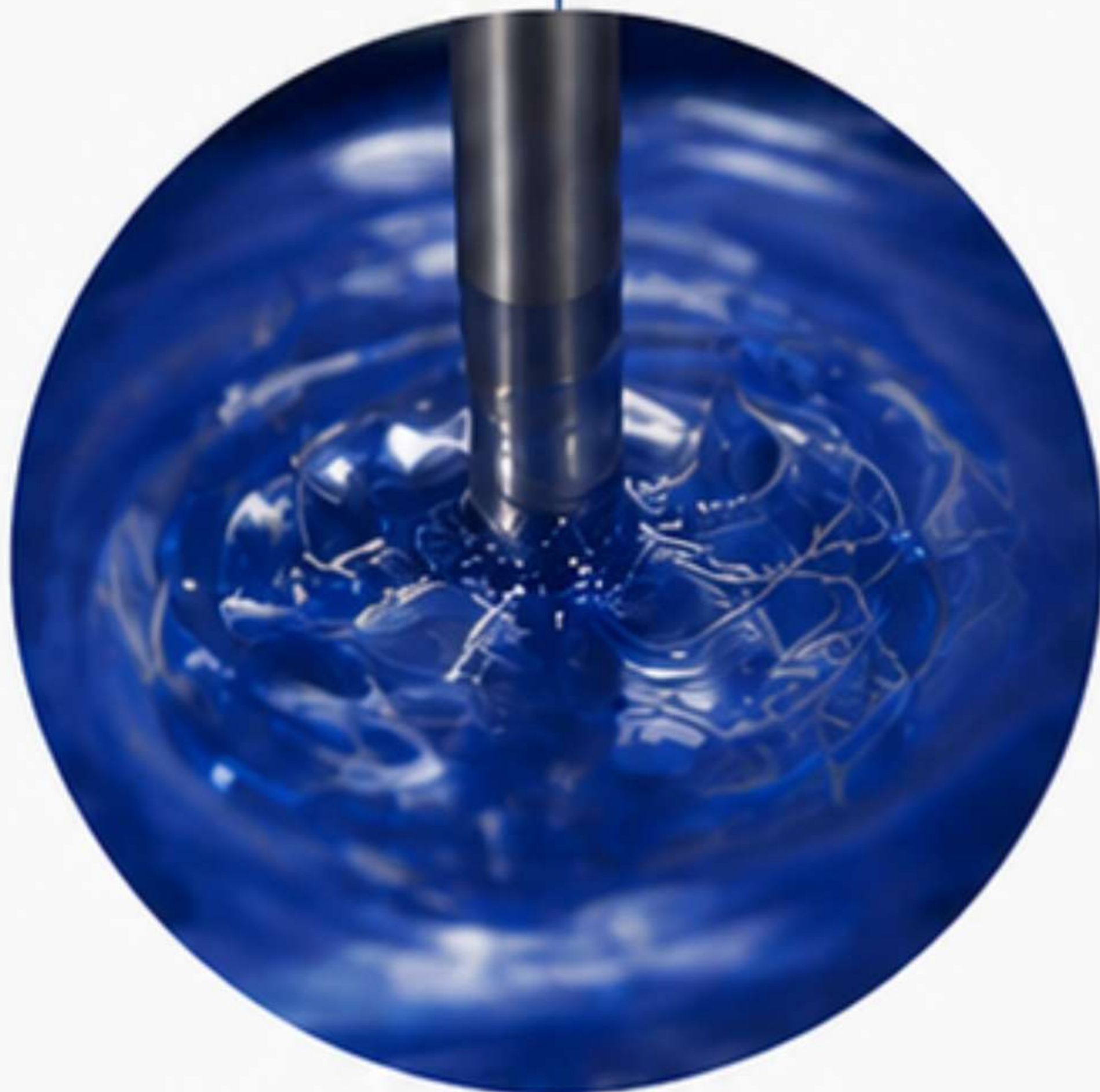
CONSISTENT COLOR STARTS WITH A STABLE CARRIER

Engineered for smooth pigment dispersion
and reliable color-formulation support.



01 / PIGMENT INPUT

02 / STABLE CARRIER



03 / SMOOTH DISPERSION



04 / UNIFORM COLOR SYSTEM



PIGMENT
COMPATIBILITY



SMOOTH
DISPERSION



FORMULATION
STABILITY



FRP
COLOR SYSTEMS

AT-STN-10 PIGMENT PASTE CARRIER RESIN

FORMULATION SUPPORT FOR CONSISTENT COLOR

A light-colored orthophthalic carrier resin
for pigment-paste formulations and
FRP color systems.



01
SELECT PIGMENT



02
ADD CARRIER RESIN



03
CONTROLLED DISPERSION



04
UNIFORM COLOR PASTE

TYPICAL COLOR SYSTEMS

FRP COLOR PASTES



ARTIFICIAL STONE COLORS



DECORATIVE COMPOSITES



TECHNICAL PROFILE

APPEARANCE	Light-Colored Resin
ACID VALUE	25–32 mgKOH/g
VISCOSITY AT 25°C	1.50–4.00 Pa·s
SOLID CONTENT	65–71%
80°C STABILITY	≥24 h
PIGMENT COMPATIBILITY	Suitable for Various Pigment Formulations
TYPICAL APPLICATION	FRP Color Paste Systems

Specific pigment formulations and processing conditions
should be confirmed with the latest TDS.

Full TDS, MSDS and COA are available upon request.

ADD FLEXIBILITY. REDUCE CRACKING.

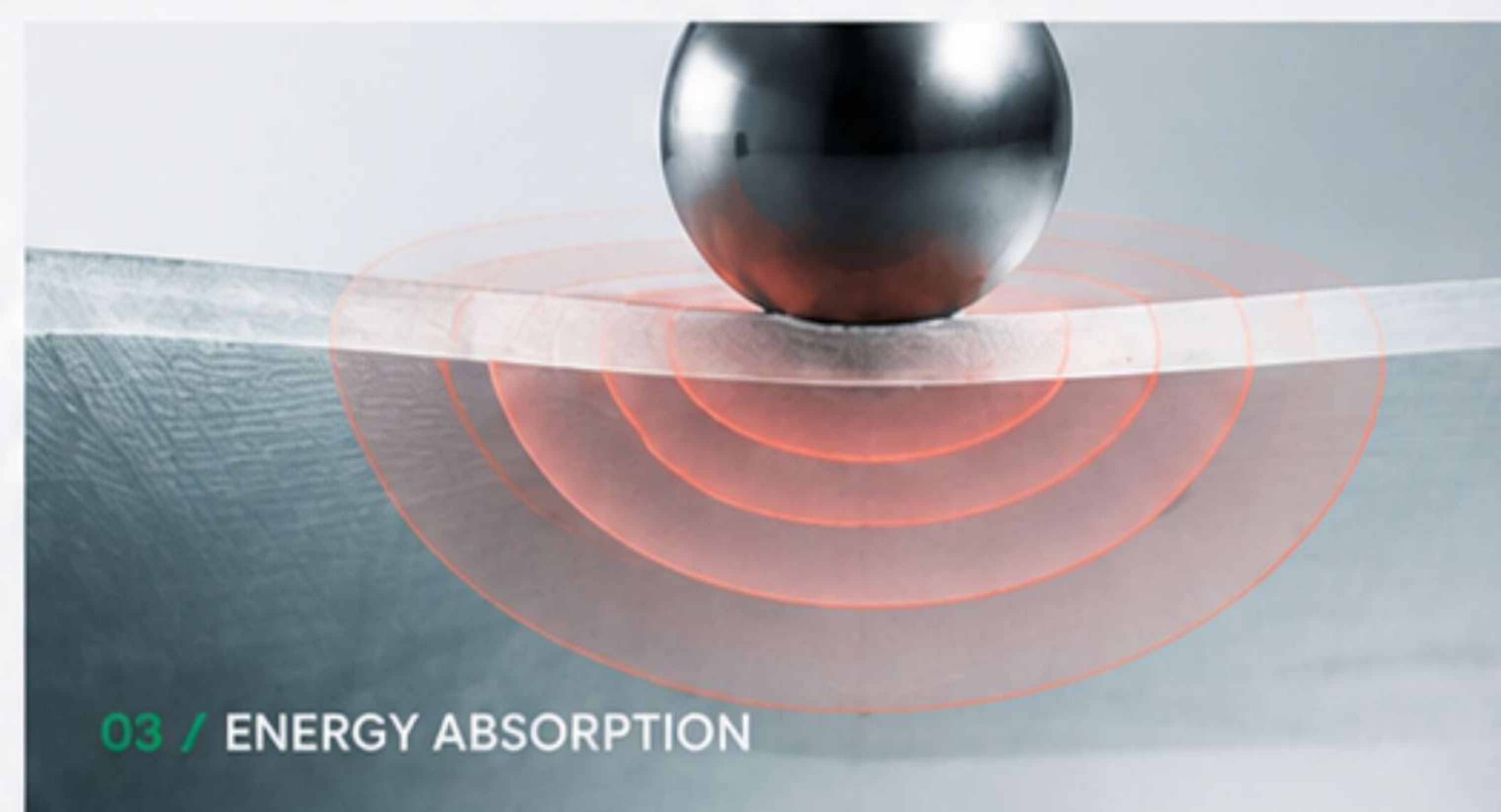
Engineered to improve toughness, tear resistance, and repeated-bending performance in FRP systems.



01 / CONTROLLED FLEX



02 / CRACK RESISTANCE



03 / ENERGY ABSORPTION

FLEX

→ ABSORB

→ RECOVER



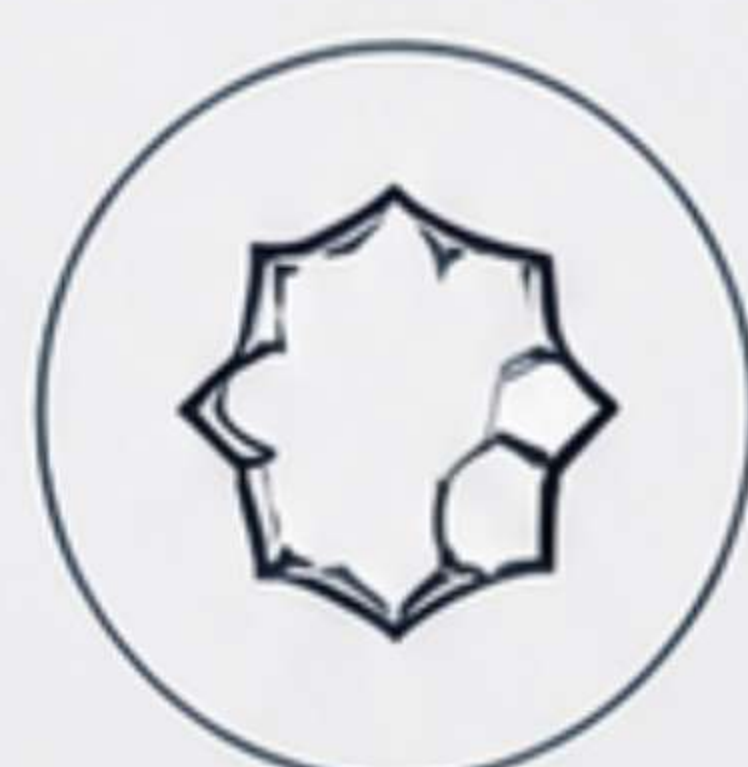
FLEXIBILITY



TEAR RESISTANCE



REPEATED BENDING



TOUGHENING SUPPORT

AT-FLX SERIES FLEXIBLE & TOUGHENING RESINS

SELECT BY TOUGHENING PRIORITY

Three flexible resin grades for improved resilience, processing balance, and FRP-system toughness.

STANDARD FLEXIBILITY



AT-FLX-01

STANDARD FLEXIBLE MODIFICATION RESIN

For improving flexibility and repeated-bending performance in general FRP systems.

Key focus:
FLEXIBILITY & TEAR RESISTANCE

HIGH-ELONGATION SUPPORT



AT-FLX-02

LOW-VISCOSITY FLEXIBLE MODIFIER

For flexible-resin modification where lower viscosity and efficient processing are priorities.

Key focus:
PROCESSING FLUIDITY

HIGH-STRENGTH FLEXIBILITY



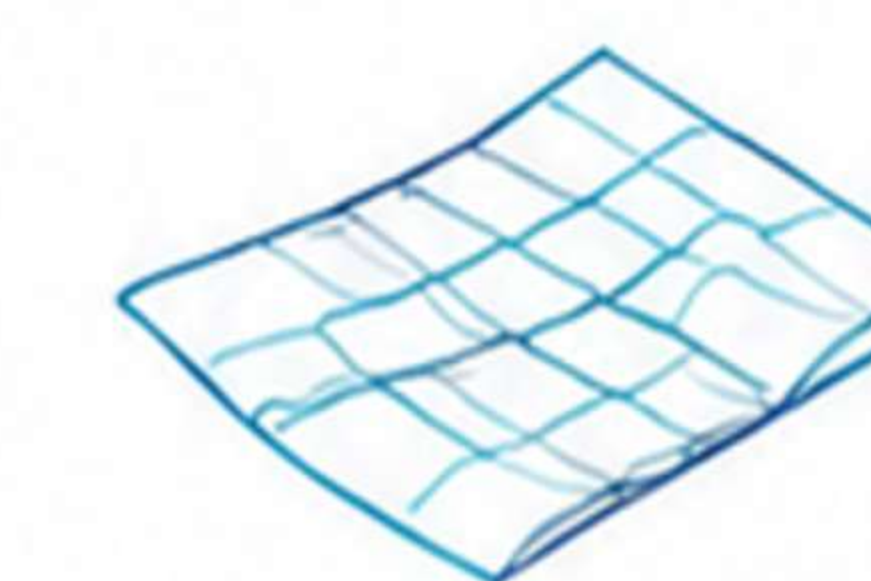
AT-FLX-03

HIGH-STRENGTH FLEXIBLE RESIN

For FRP systems requiring flexible toughening support with balanced processing and mechanical reinforcement.

Key focus:
TOUGHNESS SUPPORT

TYPICAL TOUGHENING APPLICATIONS



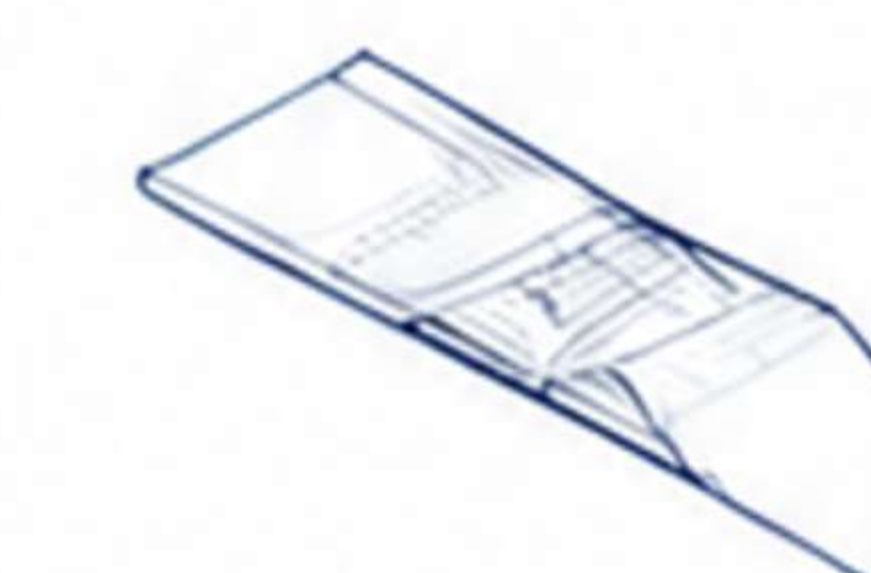
FLEXIBLE FRP PARTS



CRACK-PREVENTION SYSTEMS



IMPACT-RESISTANT COMPONENTS



COMPOSITE PANEL MODIFICATION

PROCESSING PROFILE

PROPERTY	AT-FLX-01	AT-FLX-02	AT-FLX-03
ACID VALUE	5–11 mgKOH/g	11–15 mgKOH/g	17–25 mgKOH/g
VISCOSITY AT 25°C	0.55–0.75 Pa·s	0.40–0.50 Pa·s	0.40–0.60 Pa·s
GEL TIME	5–9 min	5–9 min	6–13 min
SOLID CONTENT	67–73%	65–71%	65–71%
80°C STABILITY	≥24 h	≥24 h	≥24 h
PRIMARY FUNCTION	Flexible Modification	Low-Viscosity Flexible Modifier	High-Strength Flexible Resin

Recommended addition level and final cured performance should be confirmed with the latest TDS and application trial.

Full TDS, MSDS and COA are available upon request.

CLARITY THAT CAPTURES EVERY DETAIL

Water-white resin systems for refined transparent castings, from detailed objects to larger-format pieces.

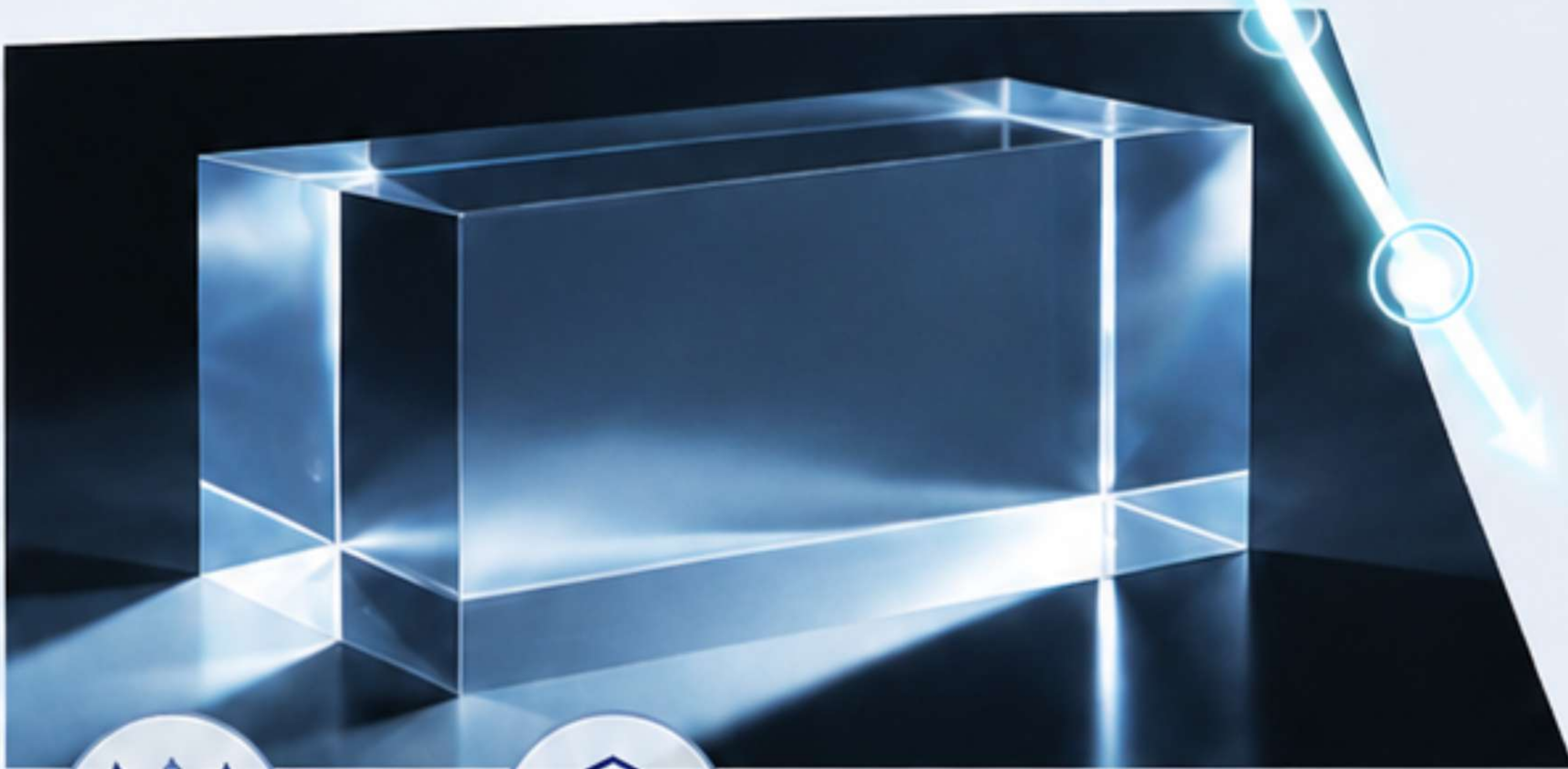
01 / WATER-WHITE CLARITY



02 / DETAIL PRESERVATION



03 / CONTROLLED CASTING DEPTH



WATER-WHITE APPEARANCE



LOW YELLOWING



SMOOTH GLOSS



CASTING FLEXIBILITY

AT-CRY SERIES

SELECT BY CASTING REQUIREMENT

Choose the appropriate resin system according to casting scale, clarity requirements, and heat-control considerations.



01

AT-CRY-01 MEDIUM-HEAT CRYSTAL CASTING

For refined transparent castings requiring water-white appearance, low shrinkage, and resistance to yellowing.

LOW YELLOWING



02

AT-CRY-02 CLEAR GLOSS CRYSTAL CASTING

For high-end transparent resin products requiring high clarity, light color, and a glossy finish.

HIGH GLOSS



03

AT-CRY-03 LOW-HEAT LARGE-FORMAT CASTING

For larger premium transparent castings requiring controlled heat and low yellowing.

LARGE FORMAT



04

AT-CRY-04 LOW-HEAT EXTENDED CASTING

For relatively larger clear casting requiring low shrinkage and stable transparent appearance.

LOW HEAT



05

AT-CRY-05 HIGH-CLARITY CRYSTAL CASTING

For transparent crystal products with particularly high transparency requirements.

HIGH TRANSPARENCY



06

AT-CRY-06 LOW-HEAT MEDIUM-VOLUME CASTING

For medium-volume transparent castings requiring high clarity, low shrinkage, and a glossy surface.

MEDIUM VOLUME



07

AT-CRY-07 HIGH-VISCOSITY CRYSTAL RESIN

For high-transparency craft casting and crystal-like decorative products.

NON-PRE-PROMOTED

CASTING OUTPUTS

AWARDS - DISPLAY PIECES -
DECORATIVE CASTINGS - ENCAPSULATION



TECHNICAL SNAPSHOT

PROPERTY	AT-CRY-01	AT-CRY-02	AT-CRY-03	AT-CRY-04	AT-CRY-05	AT-CRY-06	AT-CRY-07
ACID VALUE (mgKOH/g)	25-31	19-25	25-31	25-31	19-25	15-25	23-27
VISCOSITY AT 25°C (mPa·s)	0.50-0.70	0.50-0.70	0.50-0.70	0.45-0.60	0.45-0.60	0.35-0.60	800-1000
GEL TIME (min)	10-18	10-18	10-18	10-18	10-18	20-30	13-18
SOLID CONTENT (%)	64-70;	63-69;	63-70;	63-70;	63-69;	63-69;	65-70;
80°C STABILITY (h)	≥24	≥24	≥24	≥24	≥24	≥24	≥24
CASTING FOCUS	MEDIUM-HEAT CRYSTAL CASTING	CLEAR-GLOSS CRYSTAL CASTING	LOW-HEAT EXTENDED CASTING	HIGH-CLARITY CRYSTAL CASTING	LOW-HEAT MEDIUM-VOLUME CASTING	LOW-HEAT MEDIUM-VOLUME CASTING	HIGH-VISCOSITY CRYSTAL CASTING

AT-CRY-07 is non-pre-promoted.
Add 0.6 mL MEKP and 0.4 mL accelerator per 100 g resin.



Specific casting thickness, curing conditions, and final appearance should be confirmed with the latest TDS.



Full TDS, MSDS and COA are available upon request.

CRAFT CASTING RESINS

MADE FOR
FINER CASTING DETAILS

Pre-promoted casting resins engineered for smooth surfaces, clean demolding, and refined decorative forms.

01 / DETAIL RETENTION



02 / CLEAN DEMOLDING



03 / REFINED SURFACE



SMOOTH SURFACE



LOW WATER MARKS



CONTROLLED SHRINKAGE



PRE-PROMOTED PROCESSING

AT-BTN SERIES

CRAFT CASTING RESINS

SELECT BY FINISH REQUIREMENT

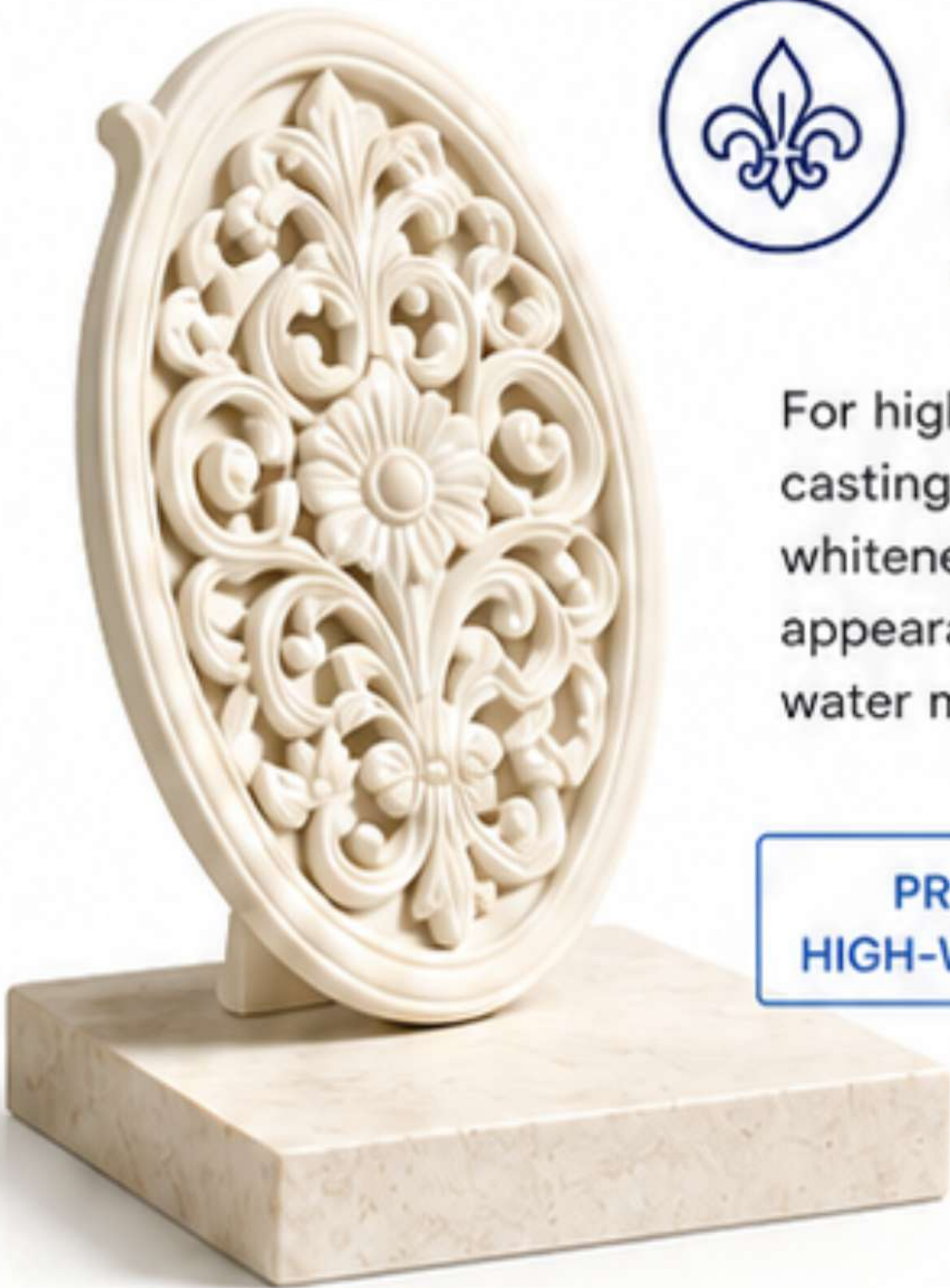
Two pre-promoted casting grades for premium decorative detail and reliable general craft production.



AT-BTN-04
PREMIUM
CRAFT CASTING

For high-end decorative castings requiring high whiteness, a refined surface appearance, and low visible water marks.

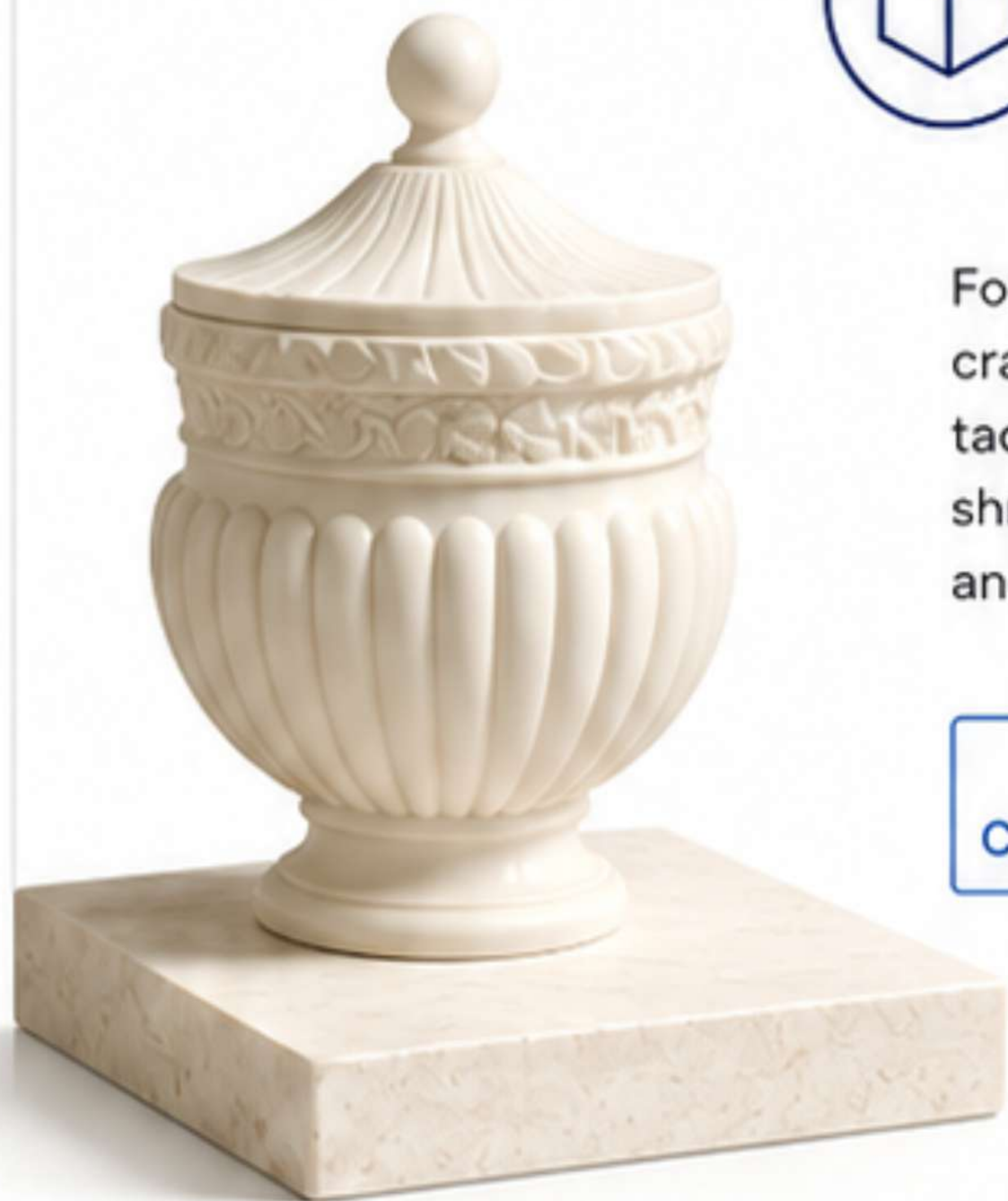
PREMIUM DETAIL
HIGH-WHITENESS FINISH



AT-BTN-05
GENERAL
CRAFT CASTING

For general decorative craft items requiring low tackiness, controlled shrinkage, good whiteness, and reliable strength.

LOW TACK
CONTROLLED SHRINKAGE



TYPICAL CRAFT OUTPUTS

DECORATIVE ITEMS



GIFTWARE



RELIEF SCULPTURES



SMALL CAST COMPONENTS



TECHNICAL PROFILE

PROPERTY	AT-BTN-04	AT-BTN-05
RESIN TYPE	Pre-Promoted Craft Casting Resin	Pre-Promoted Craft Casting Resin
PROCESSING STATE	Pre-Promoted	Pre-Promoted
VISCOSITY AT 25°C	0.35–0.40 Pa·s	0.35–0.50 Pa·s
GEL TIME	5–6 min	3:00–5:30 min
SOLID CONTENT	60–66%	60–66%
80°C STABILITY	≥24 h	≥24 h
FINISH FOCUS	High Whiteness · Low Water Marks · Premium Surface	Low Tack · Low Shrinkage · Good Whiteness
TYPICAL APPLICATION	High-End Decorative Castings	General Decorative Craft Items



Casting thickness, mold design, and ambient conditions should be confirmed with the latest TDS.



Full TDS, MSDS and COA are available upon request.

CLARITY, COLOR AND FINISHING PRECISION

Engineered for pearlescent buttons,
controlled curing, and refined machining performance.

01 /
PEARL DISPERSION



02 /
SHEET & ROD CASTING



03 /
PRECISION FINISHING



PEARL PIGMENT
COMPATIBILITY



CONTROLLED
CURING



PRECISION
MACHINING



POLISHED SURFACE
FINISH

AT-BTN SERIES BUTTON CASTING RESINS

SELECT BY FORM AND FINISH REQUIREMENT

Three engineered grades for pearlescent,
sheet-button, and rod-button production.

01



AT-BTN-01 STANDARD PEARL BUTTON RESIN

For standard pearlescent sheet buttons
requiring good transparency, controlled
shrinkage, impact resistance, and
reliable processing.

GENERAL PEARL BUTTON PRODUCTION

02



AT-BTN-02 SHEET BUTTON RESIN

For light-colored sheet buttons
requiring low exotherm, controlled
curing, good air drying, and
pearl-pigment compatibility.

LOW-EXOTHERM SHEET CASTING

03



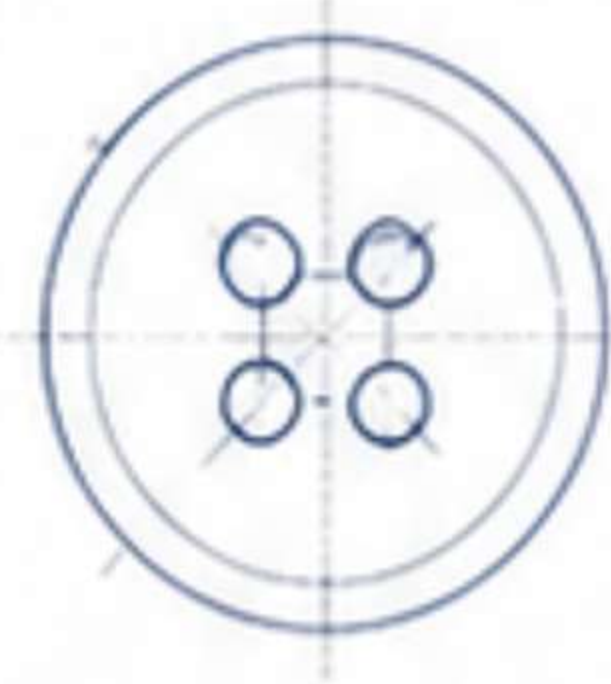
AT-BTN-03 ROD BUTTON RESIN

For transparent or lightly colored
rod-button production requiring smooth,
flat cast surfaces and reliable
machining performance.

CLEAR ROD CASTING & MACHINING

BUTTON FORM LIBRARY

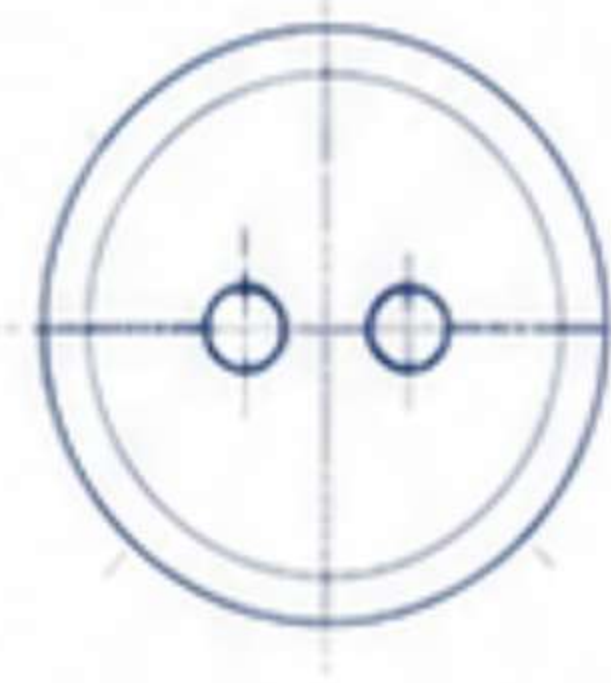
SHEET · ROD · TWO-HOLE · FOUR-HOLE ·
SHANK · DECORATIVE



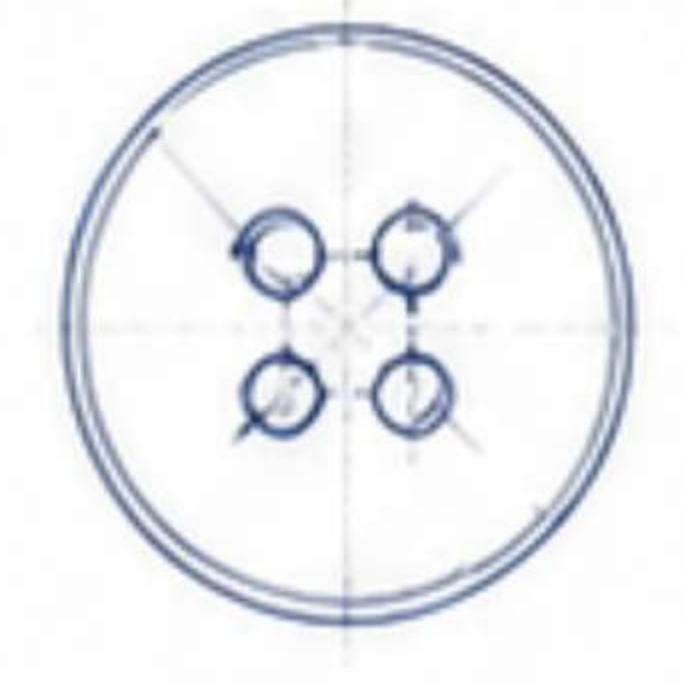
FLAT SHEET BUTTON



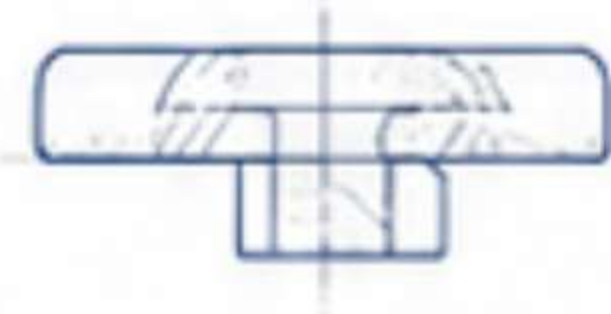
ROD-BUTTON
CROSS-SECTION



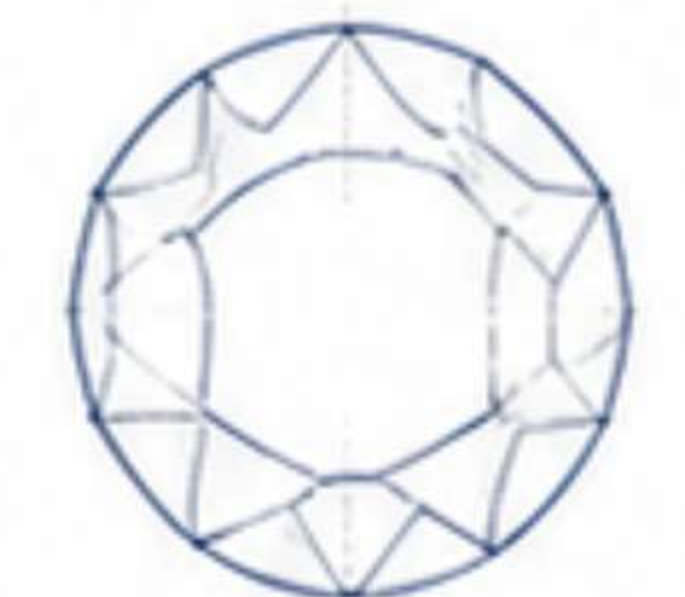
TWO-HOLE BUTTON



FOUR-HOLE BUTTON



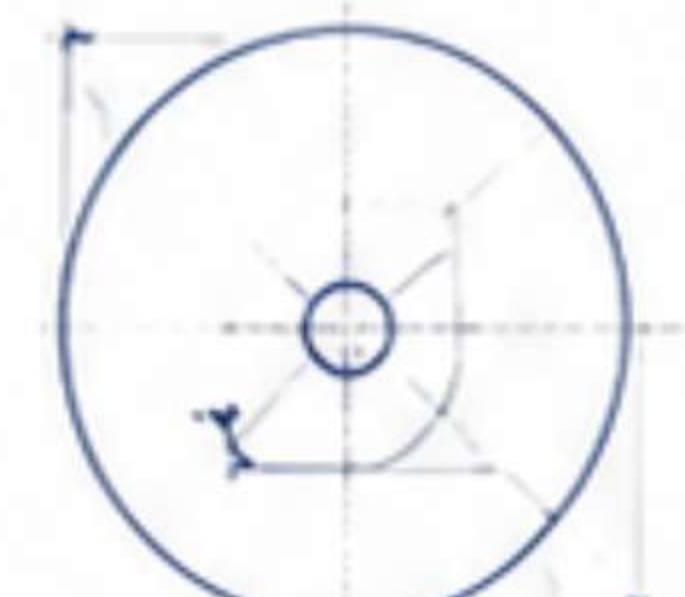
SHANK BUTTON



DECORATIVE
FACETED BUTTON



BUTTON BLANK



DRILLED-HOLE DETAIL

TECHNICAL SNAPSHOT

PROPERTY	AT-BTN-01	AT-BTN-02	AT-BTN-03
VISCOSITY AT 25°C	0.90–1.20 Pa·s	1.15–1.30 Pa·s	1.15–1.35 Pa·s
GEL TIME	3–5 min	3.5–5.0 min	3–5 min
SOLID CONTENT	66–72%	66–71%	66–71%
BARCOL HARDNESS	≥32	≥44	≥41
TENSILE STRENGTH	≥42 MPa	≥73 MPa	≥73 MPa
FLEXURAL STRENGTH	≥85 MPa	≥110 MPa	≥110 MPa
ELONGATION AT BREAK	≥9.0%	≥5.0%	≥5.0%
HDT	≥45°C	≥49°C	≥49°C

Specific button formulation and processing conditions
should be confirmed with the latest TDS.

Full TDS, MSDS and COA are available upon request.

MORE THAN RESIN. A PARTNER FOR YOUR PROCESS.

From grade selection to export documentation and processing guidance, we support every step forward.



01

PRODUCT SELECTION SUPPORT

Grade recommendations based on application, process, climate, and product requirements.



02

52 GRADES · 13 PRODUCT LINES

A broader resin portfolio for more applications and simpler product selection.



03

FACTORY-DIRECT SUPPLY

Direct manufacturer support with efficient sourcing and competitive value.



04

ISO-CERTIFIED PRODUCTION

ISO 9001 production management and consistent manufacturing control.



05

FULL EXPORT COMPLIANCE

FORM E, MSDS, COA, and DG shipping documentation support.



06

SAMPLE-FIRST POLICY

Test the resin first, validate the application, and buy with confidence.

AERTUO

MATERIALS ENGINEERED FOR PERFORMANCE

Aertuo (Huizhou) New Materials Co., Ltd.

Huizhou, Guangdong, China



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WEBSITE

<https://aertuo.com>



SCAN TO CONNECT

Add official QR code in final artwork