

K ONE TECH

LITE & PHENOLIC METAL



Global Leader in High-Performance Polymer Engineering.
Innovative High-Strength Materials for Key Industries.
Optimal Partner for Global Productivity.

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01

Introduction



K ONE TECH CO.,LTD.

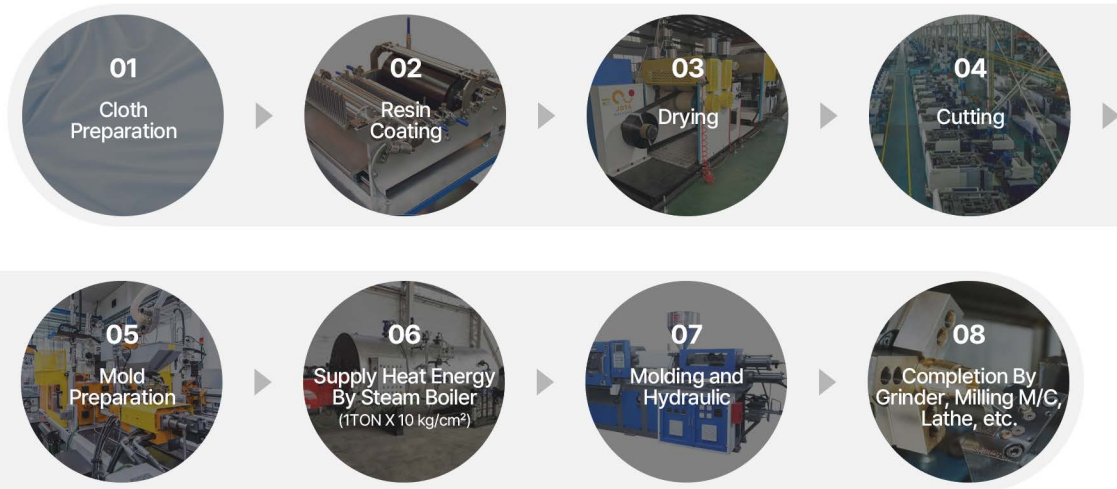
COMPANY OVERVIEW



COMPANY NAME	KUMSUNG POLYMER CHEMICAL CO., LTD.
CORE BUSINESS	Manufacture of plastic products for fabricating of transportation fixtures
FOUNDATION DATE	1979. 02. 20
LOCATION	857-11 Hogyeri, Yangsan-eup, Yangsan-gun, Gyeongsangnam-do, Korea
FACTORY SITE AREA	2,809.50m ²
GROSS FLOOR AREA	1,977.12m ²



- 
- 1979**
 - FEB** Acquired Hanil Metal Industrial Company (Hakjang-dong, Busan).
 - AUG** Registered and renamed as Kum Sung Fiber Metal Industrial Company.
 - 1981**
 - AUG** Changed registration name to Kum Sung Polymer Chemical Industrial Company.
 - 1985**
 - DEC** Selected as a Promising Small and Medium-sized Enterprise by Seoul Shin Tak Bank (Yeonsan-dong Branch).
 - 1988**
 - FEB** Established as a corporation (Kum Sung Polymer Chemical Co., Ltd.).
 - 1989**
 - JUL** Relocated and newly constructed the factory from Busan to the current location in Yangsan (within Yangsan Sanmak Industrial Complex, Gyeongnam).
 - 1993**
 - APR** Registered Design Patent for the wiper used in roll chock material for rolling mills (KIPO Reg. No. 138368).
 - 1994**
 - OCT** Registered Utility Patent for the scale removal device on the bearing part of rolling rollers (KIPO Patent No. 078014).



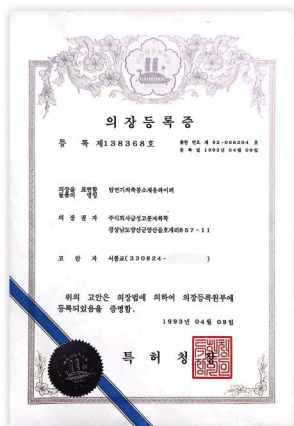
PHENOLIC METAL



Cloth Base Laminated Phenolic Resin, Metal Fabric, Linen Base

It is manufactured by combining cotton cloth with phenolic resin, followed by impregnation and molding. Additives (fillers) are used according to the application to enhance durability, abrasion resistance, heat resistance, and mechanical strength. (This is a Reinforced Plastic.)

KUMSUNG POLYMER CHEMICAL



KIPO Reg. No. 138368



KIPO Patent No. 078014

02

Products



K ONE TECH CO.,LTD.

Phenolic Metal, Fiber Metal (Fabric Bearing) General Use (Bearing Type)



Features

Phenolic Molding Products

01

Low frictional force ensures high mechanical efficiency, while excellent abrasion resistance leads to a long service life and contributes to improved productivity.

02

Being a molded product and lightweight, it is easy to assemble and handle. (Specific Gravity : 1.5)

03

It does not undergo permanent deformation under impact load like metal, and minimizes wear on the rolls to the greatest extent.

04

Cooling and lubrication are sufficiently achieved using water, making it economical.

For Steel Sheet, Thick Plate



High-Strength, High-Reduction Rolling Metal

01

Spindle Bearing Liner

02

Thrust Ring

03

Carrier Metal

For Hot and Cold Rolling Rollers



Features

Phenolic Wiper & Stripper

01

Removes impurities and foreign matter adhered to the rolling mill (roller), thereby preventing damage to the final product.

02

Offers excellent protection against scratches and cracks on the strip and possesses good heat resistance, minimizing deformation caused by heat.

03

Demonstrates excellent long-term preservation capability despite continuous exposure to cooling water.

04

This is a molded product made from non-flammable materials, with additives (Fillers) included as required for the application to provide superior heat resistance, abrasion resistance, and mechanical strength.

For Pipe Manufacturing



Clamp, Chuck Piece, Tension Pad, Guide Bar

Features

01

Excellent abrasion resistance leads to high productivity and prevents product damage, resulting in higher quality.

02

Reduces noise (or operational sound) generated during the pipe production process, thereby improving work efficiency.

For Shipbuilding and Steelmaking



Phenolic Bushing & Rings

Features

01

Features excellent abrasion resistance and durability on rollers, allowing it to be used as a substitute for steel.

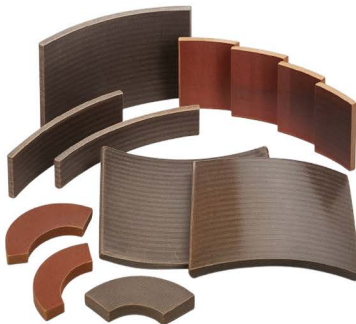
02

It is particularly resistant to salt and seawater, making it an ideal substitute for metal parts in the pin, roller, and shaft components of ship deck machinery.

03

It is lightweight and easy to handle, offering convenience in use, and possesses superior mechanical strength.

For Thermal Insulation



Clamp, Chuck Piece, Tension Pad, Guide Bar

Features

01

Used as thermal insulation material for various presses and insulation material for molds.

02

Excellent heat resistance ensures highly effective thermal insulation and barrier performance, thereby preventing heat loss.

For Shipbuilding & Marine Applications



Phenolic Metal Molding & Processing Products

01

**Sliding Shoe (Pad)
- Round Type**

02

Liner - Square Type

03

Saddle Plate

01

**Bushing
(Rings, Washer)**

02

**Teflon Sliding
Shoe & Liner**

03

Naval Brass Sliding Shoe
(For High-Temperature Pipes)

For Shipbuilding & Marine Applications



Features

Phenolic Metal Molding & Processing Products

01

Features excellent Compressive Strength (over 24 kg/mm²), making it suitable for Pipe Support applications.

02

It boasts superior heat resistance, oil resistance, alkali resistance, and ammonia resistance, allowing for widespread use in Chemical Ships and Tankers. It is also strong at low temperatures, making it ideal for LNG and LPG carriers.

03

The surface contacting the pipe is smoothly finished (through Molding & Processing) resulting in low friction and suitability for support roles.

04

Being lightweight and easy to handle and assemble, it is convenient to use even in challenging work areas.



PHENOLIC METAL



HIGH-STRENGTH, HIGH-REDUCTION ROLLING METAL



PHENOLIC WIPER & STRIPPER



**CLAMP, CHUCK PIECE,
TENSION PAD, GUIDE BAR**



PHENOLIC BUSHING



**THERMAL
INSULATION MATERIAL**



**SHIPBUILDING
PIPING MATERIALS**

Trusted Partnership with Global Industry Leaders





#857-11, HOGYE-DONG, YANGSAN-CITY, KYOUNGNAM, KOREA

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