



Product Catalogue

Anhui Kangde New Material Technology Co., Ltd. — sterilization monitoring, sterilization barrier systems and oral-care products

Kangde Med is a professional enterprise engaged in the research, development, production and sale of sterilization barrier systems and sterilization monitoring systems, serving hospitals, medical device factories and cosmetics manufacturers for over 20 years. Products are manufactured under ISO 13485 to ISO 11140-1, ISO 11607-1 and EN 868-5.



Sterilization Monitoring System

Chemical indicator tapes and indicator strips (Type 1, Type 4, Type 5 and Type 6) for steam, ethylene oxide (EO), hydrogen peroxide plasma and formaldehyde sterilization — giving CSSD and clinic staff clear, irreversible visual confirmation that packs have been exposed to the process.

Steam Indicator Tape KD-IT-ST

Type 1 process indicator tape for steam sterilization. Adheres firmly to paper, non-woven, SMS and pouches; the yellow diagonal indicator lines turn dark brown/black after exposure to saturated steam.

Product Name	Steam Indicator Tape
Indicator Type	ISO 11140-1 Type 1 process indicator
Width Options	12 mm, 19 mm, 25 mm (custom widths available)
Length Options	50 m standard (55 m / 100 m on request)
Base Material	High-strength medical-grade crepe paper
Sterilization Method	Steam (moist heat): 121 °C / 20 min or 132-134 °C / 4-6 min
Indicator Ink	Lead-free chemical indicator, non-toxic; changes from light yellow to dark brown/black



EO Indicator Tape KD-IT-EO

Type 1 process indicator tape for ethylene oxide (EO) sterilization. Indicator lines change from orange to green after exposure to EO gas, identifying processed packs instantly.

Product Name	EO (Ethylene Oxide) Indicator Tape
Indicator Type	ISO 11140-1 Type 1 process indicator
Width Options	12 mm, 19 mm, 25 mm (custom widths available)
Length Options	50 m standard
Base Material	Medical-grade crepe paper
Sterilization Method	Ethylene oxide gas
Indicator Ink	Non-toxic chemical indicator; changes from orange to green



Plasma Indicator Tape KD-IT-PL

Type 1 process indicator tape for hydrogen peroxide (H₂O₂) plasma sterilization. Indicator lines change from blue to pink/red after exposure to vaporized hydrogen peroxide.

Product Name	Hydrogen Peroxide Plasma Indicator Tape
Indicator Type	ISO 11140-1 Type 1 process indicator
Width Options	12 mm, 19 mm, 25 mm
Length Options	50 m standard
Base Material	Medical-grade crepe paper
Sterilization Method	Vaporized hydrogen peroxide / H ₂ O ₂ gas plasma
Indicator Ink	Non-toxic chemical indicator; changes from blue to pink/red

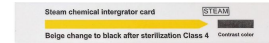




Class 4 Steam Indicator Strip KD-IS-ST4

Type 4 multi-variable chemical indicator strip for steam sterilization. Placed inside every pack, it responds to steam, time and temperature and changes from yellow to black when the critical parameters are reached.

Product Name	Class 4 / Type 4 Chemical Steam Indicator Strip
Indicator Type	ISO 11140-1 Type 4 multi-variable indicator
Strip Size	15 mm × 85 mm
Packing	200 strips per box
Sterilization Method	Saturated steam — 121 °C / 20 min or 134 °C / 4 min
Variables Monitored	Steam, time and temperature
Colour Change	Yellow → black (reference colour printed on strip)



Class 5 Integrating Indicator Strip KD-IS-ST5

Type 5 integrating indicator for steam sterilization. Responds to all critical variables (time, temperature, saturated steam) with performance correlated to a biological indicator — the highest level of chemical monitoring for pack release.

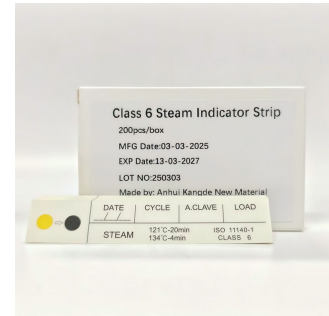
Product Name	Class 5 / Type 5 Chemical Steam Integrating Indicator Strip
Indicator Type	ISO 11140-1 Type 5 integrating indicator
Strip Size	15 mm × 85 mm
Packing	200 strips per box
Sterilization Method	Saturated steam — 121 °C / 20 min or 134 °C / 4 min
Variables Monitored	Time, temperature and saturated steam (all critical variables)
Colour Change	Yellow → black



Class 6 Emulating Indicator Strip KD-IS-ST6

Type 6 emulating indicator designed for a specific steam cycle (e.g. 134 °C / 3.5 min or 121 °C / 15 min). Changes to black only when all critical variables of that cycle are met; custom cycle designs available from 90-140 °C.

Product Name	Class 6 / Type 6 Chemical Steam Emulating Indicator Strip
Indicator Type	ISO 11140-1 Type 6 emulating indicator
Standard Cycles	121 °C / 15 min · 134 °C / 3.5 min (other cycles on request)
Custom Design Range	Temperature 90-140 °C; exposure time 30 s – 60 min
Strip Size	15 mm × 85 mm (labels and tapes available)
Packing	200 strips per box
Variables Monitored	Time, temperature and steam for the specified cycle



EO Indicator Strip KD-IS-EO

Type 4 chemical indicator strip for ethylene oxide sterilization. Placed inside the pack, the indicator changes from red to blue when exposed to the stated EO concentration, humidity, temperature and time.

Product Name	Chemical EO Indicator Strip
Indicator Type	ISO 11140-1 Type 4 multi-variable indicator
Sterilization Method	Ethylene oxide (EO)
Stated Values	600 mg/L EO, 60 % RH, 30 °C, 30 min · 600 mg/L EO, 60 % RH, 54 °C, 20 min
Colour Change	Initial red → final blue
Strip Size	15 mm × 85 mm
Packing	200 strips per box

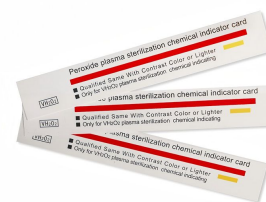




Plasma Indicator Strip KD-IS-PL

Type 4 chemical indicator strip for hydrogen peroxide (H₂O₂) plasma sterilization. Heavy-metal-free indicator placed inside Tyvek® pouches and trays to confirm sterilant penetration.

Product Name	Chemical Plasma (Hydrogen Peroxide) Indicator Strip
Indicator Type	ISO 11140-1 Type 4 multi-variable indicator
Sterilization Method	Hydrogen peroxide gas plasma / vaporized H ₂ O ₂
Stated Values	2.3 mg/L H ₂ O ₂ , 50 °C, 6 min
Indicator Shape	Strip, 15 mm × 85 mm
Packing	200 strips per box
Features	100 % free of toxic heavy metals



Formaldehyde Indicator Strip KD-IS-FO

Chemical indicator strip for low-temperature steam-formaldehyde (LTSF) sterilization. Placed inside packs to confirm exposure to formaldehyde at the stated concentration, temperature and time.

Product Name	Chemical Formaldehyde Indicator Strip
Indicator Type	ISO 11140-1 Type 4 multi-variable indicator
Sterilization Method	Low-temperature steam-formaldehyde (LTSF)
Strip Size	15 mm × 85 mm
Packing	200 strips per box
Compliance	ISO 11140-1, manufactured under ISO 13485; CE
Shelf Life	3 years from date of manufacture





Sterilization Barrier System

Heat-seal sterilization pouches, self-seal pouches, flat and gusseted sterilization reels, EO dialysis film pouches, and medical coated paper and composite films — manufactured to ISO 11607-1 and EN 868-5 to keep instruments sterile until the point of use.

Self-Sealing Sterilization Pouch KD-SB-SSP

Medical-grade paper/film pouch with an adhesive closure strip — no heat sealer needed. Dual steam and EO process indicators, three-side burst-resistant seal and a clear film to identify contents.

Product Name	Self-Sealing Sterilization Pouch
Intended Use	Enclosing devices for sterilization by steam autoclave or ethylene oxide, with aseptic presentation at point of use
Material	60 g/m ² or 70 g/m ² medical-grade paper (French Arjowiggins paper available) + blue/white/green medical CPP/PET composite film (52 µm) + medical adhesive tape
Process Indicators	Steam: blue → black (30 min at 121 °C) · EO: pink → yellow (40 min at 60 °C, 60 % RH, 725 mg/L EO)
Sterilization Method	Steam, ethylene oxide
Seal	Three-side multi-line heat seal + adhesive closure strip
Sizes	16 standard sizes from 57 × 100 mm to 305 × 430 mm; custom sizes and printing available



Heat-Seal Sterilization Pouch KD-SB-HSP

Pre-cut paper/film pouches for heat sealing. Medical-grade 60/70 g/m² paper with blue, white or green composite film, steam, EO and formaldehyde indicators and a three-side burst-resistant seal.

Product Name	Heat-Seal Sterilization Paper/Film Pouch
Material	60 g/m ² or 70 g/m ² medical-grade paper (French Arjowiggins paper available) + blue/white/green medical CPP/PET composite film
Process Indicators	Steam: blue → black · EO: pink → yellow · Formaldehyde: red → green
Sterilization Method	Steam, ethylene oxide, formaldehyde
Seal	Three-side multi-line burst-resistant seal; fourth side sealed by user with a heat sealer
Sizes	Standard sizes from 57 × 100 mm to 305 × 430 mm; custom sizes, printing and packaging on request
Packing	200 pouches per box



Sterilization Flat Reel KD-SB-FR

Continuous paper/film sterilization reel, 200 m per roll, in 12 widths from 50 mm to 500 mm. Cut to length and heat-seal to package instruments of any size. Steam, EO and formaldehyde indicators printed.

Product Name	Sterilization Flat Reel
Roll Length	200 m per roll (100 m on request)
Widths	50, 55, 75, 100, 150, 200, 250, 300, 350, 400, 450, 500 mm
Material	60 g/m ² or 70 g/m ² medical-grade paper (French Arjowiggins paper available) + blue/white/green medical CPP/PET composite film
Process Indicators	Steam: blue → black · EO: pink → yellow · Formaldehyde: red → green
Sterilization Method	Steam, ethylene oxide, formaldehyde
Seal	Multi-line side seals, burst-resistant





Sterilization Gusseted Reel KD-SB-GR

Gusseted paper/film sterilization reel, 100 m per roll, with expandable side pleats for bulky instrument sets, bowls and kits. Widths from 50 mm to 500 mm; steam, EO and formaldehyde indicators printed.

Product Name	Sterilization Gusseted Reel
Roll Length	100 m per roll
Widths	50, 55, 75, 100, 150, 200, 250, 300, 350, 400, 450, 500 mm
Material	60 g/m ² or 70 g/m ² medical-grade paper (French Arjowiggins paper available) + blue/white/green medical CPP/PET composite film
Process Indicators	Steam: blue → black · EO: pink → yellow · Formaldehyde: red → green
Sterilization Method	Steam, ethylene oxide, formaldehyde
Seal	Multi-line side seals, burst-resistant



Medical Coated Paper & Composite Film

KD-SB-MPF

Roll-stock packaging materials for form-fill-seal machines: French Arjowiggins coated paper, medical dialysis paper, PET/CPP and PET/PE composite films, and PP/PE or PA/PE blister films for medical device manufacturers.

Product Name	Medical Coated Paper Roll / Composite Plastic Film
Papers	French Arjowiggins heat-seal coated paper; medical dialysis (grid-lacquered) coated paper
Films	PET/CPP composite film, PET/PE composite film
Blister Films	PP/PE blister film, PA/PE blister film
Intended Use	Roll-stock material for automatic form-fill-seal packaging of medical devices such as gauze, gloves, syringes, catheters and dressings
Sterilization Method	Gamma irradiation, ethylene oxide; steam for selected materials
Specification	Width, thickness, printing and packaging produced to customer request



EO Dialysis Film Pouch KD-SB-FP

Side-seal or middle-seal film pouch with a dialysis paper breathable strip for EO, formaldehyde and irradiation sterilization of finished medical devices. Water-resistant, light-blocking, puncture-resistant; flat or gusseted designs.

Product Name	Side-Sealing / Middle-Sealing Film Pouch (EO Dialysis Pouch)
Construction	Multi-layer film pouch with a dialysis-paper breather strip inserted at the centre or the edge
Designs	Flat (2D) or folded / gusseted (3D)
Advantages	Water resistance, moisture and light barrier, excellent puncture resistance
Sterilization Method	Ethylene oxide, formaldehyde, irradiation (gamma / e-beam)
Device Classification	Suitable for Class I and higher devices
Country of Origin	China





Oral Care System

Dental floss, floss sticks for children and adults, interdental brushes and tongue scrapers — produced in the same clean, quality-controlled environment as our medical products, with OEM and private-label packaging available.

Dental Floss Sticks KD-OC-FS

Single-use dental floss picks in children's and youth series — rounded edge-free heads, slender handles and cartoon shapes for children; 50-piece boxes, buckets, bamboo-charcoal and fresh-mint versions and 100-piece packs for older users.

Series	Children's floss stick series · Youth floss stick series
Packing Options	50 pcs box · 50 pcs bucket · 50 pcs bamboo-charcoal box · 50 pcs fresh-mint bucket · 100 pcs pack
Head	Round, without edges — safe for young children
Handle	Slender, cartoon-shaped (children) or ergonomic (youth)
Customisation	Colour, floss type, packaging and brand printing to order

SUPER DEER



Dental Floss KD-OC-DF

Classical clean dental floss and waxed dental floss series in 50-piece boxes, buckets and individually packed formats, plus 100-piece packs — suitable for dental clinics, retail and private-label supply.

Series	Classical clean dental floss · Waxed dental floss
Packing Options	50 pcs box · 50 pcs bucket · 50 pcs individually packed box · 100 pcs pack
Customisation	Flavour, wax, packaging and brand printing to order

SUPER DEER



Interdental Brushes KD-OC-IB

I-shaped interdental brushes (from 0.7 mm), L-shaped brushes for back teeth, soft silicone interdental brushes and dual-use toothpick brushes — for cleaning around braces, implants and bridges.

Types	I-shaped interdental brush (0.7 mm and up) · L-shaped interdental brush · Silicone interdental brush · Dual-use toothpick brush
Customisation	Wire size, handle colour, packaging and brand printing to order

SUPER DEER



Tongue Scraper KD-OC-TS

Tongue scraper series for removing bacteria and debris from the tongue surface to reduce bad breath — available in several handle designs with custom colours and packaging.

Series	Tongue scraper series
Customisation	Handle colour, packaging and brand printing to order

SUPER DEER





Ordering information

What information should I provide when sending an inquiry?

Please tell us the product (or the application you want to monitor or package), sizes and quantities, the sterilization method you use (steam, EO, plasma or formaldehyde), your destination port or address, and whether you need OEM printing or private-label packaging. Our team replies within 24 hours on working days.

Can you provide samples? Are they free?

Yes. Samples of indicator tapes, indicator strips, pouches and reels are available for evaluation. Small sample sets are free of charge; we ask customers to cover courier costs, which are refunded against the first order.

What is the minimum order quantity?

MOQs are set per carton — for example 240–480 rolls of indicator tape or 100 boxes of indicator strips. Mixed-product orders are welcome; contact us for the exact MOQ of each item.

What is the typical lead time for orders?

Standard products ship within 7–15 working days of order confirmation. Custom-printed or OEM products take 20–30 working days after artwork approval.

What payment terms do you accept?

We accept T/T bank transfer and L/C for larger orders. Standard terms are a deposit with the order and the balance before shipment; other terms can be discussed for long-term partners.

Do you offer OEM / ODM services?

Yes. We manufacture indicator tapes, indicator strips, pouches, reels and oral-care products under customer brands, with custom widths, sizes, print designs, labels and retail packaging. Artwork guidelines and mock-ups are provided before production.

Can you design a chemical indicator for a specific sterilization cycle?

Yes. Class 6 emulating indicators can be designed for cycles between 90 °C and 140 °C with exposure times from 30 seconds to 60 minutes, in strip, label or tape formats.

Do you ship to my country? What are the shipping terms?

We export to more than 100 countries. Shipments are offered EXW, FOB Shanghai / Ningbo, CIF or DDP by sea, air or express, with export documentation (commercial invoice, packing list, certificate of origin) and product certificates included.

How are products packed for export?

Products are packed in inner boxes and export cartons with lot numbers and expiry dates printed; cartons are palletised for sea freight on request. Carton dimensions and weights are listed on each product page.

What is the difference between Type 1, Type 4, Type 5 and Type 6 chemical indicators?

Type 1 process indicators (tapes, pouch print) show that a pack was exposed to the process. Type 4 multi-variable indicators respond to two or more critical variables. Type 5 integrating indicators respond to all critical variables with performance correlated to a biological indicator. Type 6 emulating indicators verify all critical variables of one specific cycle. All are defined in ISO 11140-1.

Are your products certified?

Kangde Med operates an ISO 13485 quality management system. Indicators are manufactured to ISO 11140-1; pouches and reels to ISO 11607-1 and EN 868-5; products carry CE marking where applicable. Certificates and declarations of conformity are available on request.

Which sterilization methods do your pouches and reels support?

Paper/film pouches and reels are validated for steam, ethylene oxide and formaldehyde sterilization and carry indicators for all three. For hydrogen peroxide plasma, use Tyvek® or non-woven packaging with our



plasma indicator tape and strips.

What is the shelf life of your products?

Unopened indicator tapes and strips have a 3-year shelf life. Pouches and reels have a 5-year shelf life unopened; after sterilization we recommend a validity of 6 months under clean, dry storage below 25 °C and 60 % RH.

Are the indicator inks safe?

Yes. Our indicator inks are lead-free and free of toxic heavy metals, non-bleeding and non-migrating, so they do not transfer to instruments inside the pack.

What industries are your sterilization products suitable for?

Hospitals and CSSDs, dental and veterinary clinics, microbiology and research laboratories, pharmaceutical and cosmetics manufacturers, medical device manufacturers, and tattoo or beauty studios — any environment that sterilizes instruments or products.