

Technology **STRIP & FOIL**

STAINLESS STEEL / SUPER ALLOYS

Our Strip Foil Capabilities



Precision Cold-Rolled Tolerances



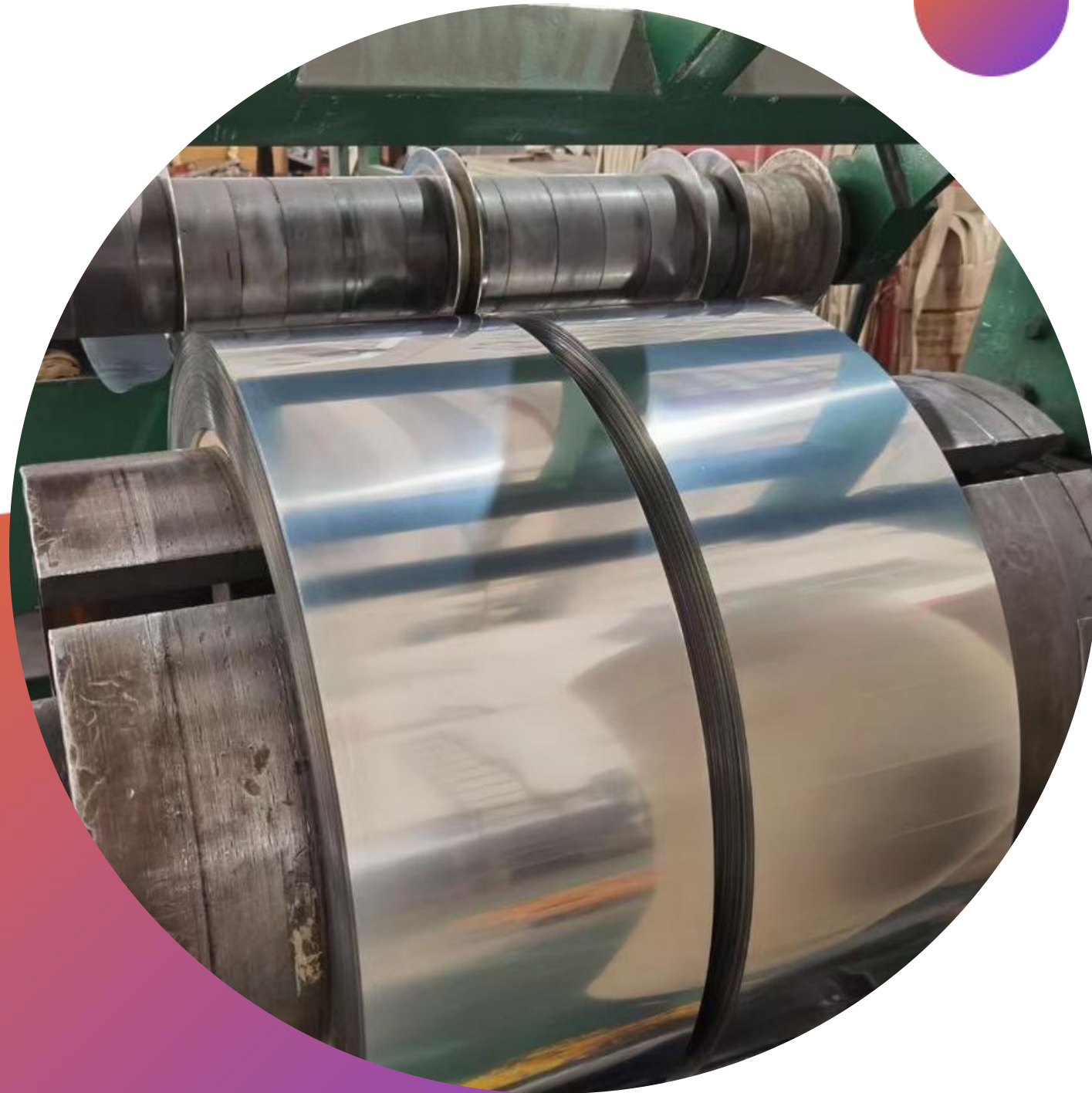
Continuous Bright Annealing
Capabilities



Slitting Capabilities And
Customized Edges



Flexible Standard Packaging
Capabilities



Why Titanium Strips Foils

Titanium strip foil is a kind of metal with high strength and low density, high corrosion resistance and heat resistance.

The most popular titanium strips foils grades in the market are the grade 1 titanium strip and the grade 2 titanium strip.

Excellent biocompatibility and non-toxic, with the development of biomedical materials, titanium is widely used in medical implants.

Titanium has good thermal conductivity and low thermal expansion coefficient, making it an ideal material for aerospace applications.

The main application areas of titanium strips foils are: chemical industry, aerospace, automotive, petroleum drilling equipment, military industry, medical treatment and other industrial fields.



Grade 1 Titanium Strip Foil VS. Grade 2 Titanium Strip Foil



GR 1 Titanium Strip Foil

Grade 1 titanium strips are known to be commercially pure and one of the most ductile and safest titanium grades that exhibit great formability.

GR 2 Titanium Strip Foil

Grade 2 titanium strips characteristics are almost similar to grade 1 titanium strips characteristics but are a bit stronger. Grade 2 titanium strip does offer a great balance of ductility and strength.



Standards Comparison Table

| TITANIUM | USA | UNS | CHINA | RUSSIA | JAPAN | GERMANY |
|----------|------|--------|-------|--------|---------|---------|
| GRADE | ASTM | NO | GB/T | GOST | JIS | DIN |
| Ti | GR 1 | R50250 | TA1 | BTI-00 | CLASS 1 | 3.7025 |
| Ti | GR 2 | R50400 | TA2 | BTI-0 | CLASS 2 | 3.7035 |

Chemical Composition

GR 1

Ti: Rest

GR 2

Ti: Rest

Gr 1

Fe: $\leq 0.20\%$

GR 2

Fe: $\leq 0.30\%$

GR 1

O: $\leq 0.18\%$

GR 2

O: $\leq 0.25\%$

GR 1

C: $\leq 0.08\%$

GR 2

C: $\leq 0.08\%$

GR 1

N: $\leq 0.03\%$

GR 2

N: $\leq 0.03\%$

GR 1

H: $\leq 0.015\%$

GR 2

H: $\leq 0.015\%$

Mechanical Properties

Titanium Grade 1 Strip Foil Mechanical Properties (at room temperature for ASTM B265)

01

Yield Strength

140-310 Mpa

02

Tensile Strength

≥240 MPa

03

Elongation

≥24%

Titanium Grade 2 Strip Foil Mechanical Properties (at room temperature for ASTM B265)

01

Yield Strength

275-450 Mpa

02

Tensile Strength

≥400 MPa

03

Elongation

≥20%

Applications

Titanium Grade 1 Strip Foil (at room temperature for ASTM B265)

- Chemical and Maritime Industries
- Pharmaceuticals,
- Medical Technology

Titanium Grade 2 Strip Foil (at room temperature for ASTM B265)

- Chemical and Maritime Industries
- Plate Heat Exchangers
- Reaction Vessels
- Evaporators
- Condensers
- Electroplating Equipment
- Desalinization Plants and Seawater Heaters
- Medical Equipment and Structural Engineering

Contact Us



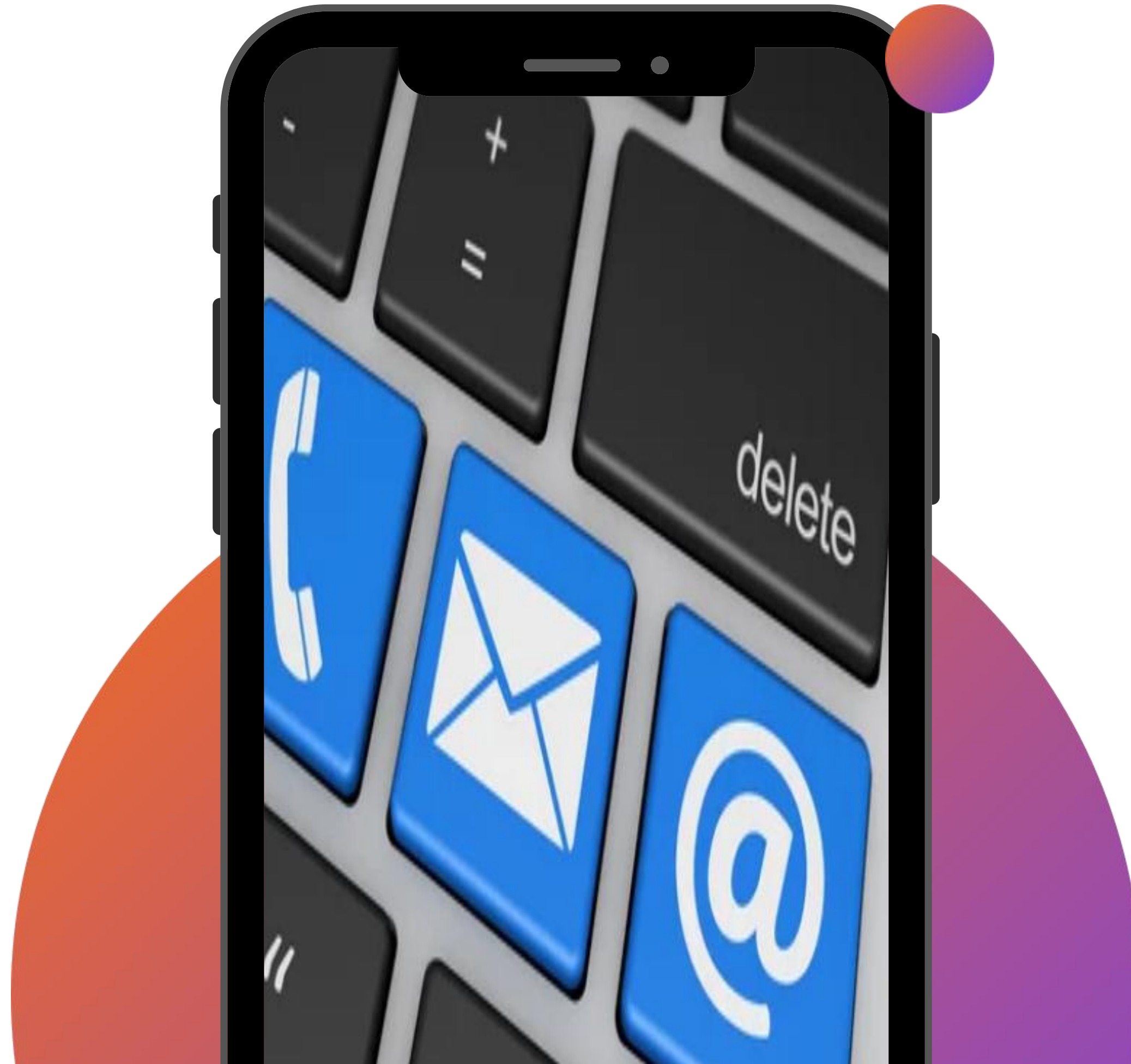
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Thank You

FOCUS ON ALLOY STRIP FOIL SOLUTIONS