

Introduction to Non-Asbestos Jointing Sheets

Overview

Non-asbestos jointing sheets are high-performance sealing materials designed to replace traditional asbestos-based gaskets. Engineered using advanced composite materials, they provide superior safety, durability, and environmental compliance while maintaining excellent thermal, chemical, and mechanical properties.

Why Non-Asbestos?

- **Health & Safety:** Eliminate cancer risks associated with asbestos fibers.
- **Regulatory Compliance:** Meet global bans on asbestos (EPA, EU REACH, WHO).
- **Performance:** Enhanced resistance to oils, steam, acids, and high-pressure conditions.

Composition & Technology

Key Components

Material	Function	Example Applications
Aramid Fibers	High tensile strength, heat resistance	High-pressure flanges (2710, 2718)
Elastomers (NBR/SBR/Neoprene)	Oil/fuel/chemical resistance	Automotive (2701), refineries (2704)
Mineral/Carbon/Glass Fibers	Thermal stability & reinforcement	Steam systems (2705, 2706)
Metal Mesh (316SS)	Structural support for heavy loads	Turbines, pipelines (2715, 2717)

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Manufacturing Process

1. Fiber Blending: Precision mixing of fibers for uniform density.
2. Calendering: Compression into sheets (0.25–6.0 mm thickness).
3. Vulcanization: Heat curing for chemical/thermal resistance.
4. QC Testing: Validated to ASTM, DIN, and API standards.

Advantages Over Traditional Materials

Feature	Non-Asbestos Sheets	Asbestos Sheets
Safety	Non-carcinogenic	Hazardous (lung cancer risk)
Temperature Range	-50°C to 500°C (2710)	Limited to 260°C
Chemical Resistance	Resists oils, acids, steam	Degrades in acids
Regulatory Status	Globally approved	Banned in 60+ countries

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Industry Applications

Sector	Recommended Cohere Styles	Use Case
Oil & Gas	2710 (API 6FB), 2718	Flange seals in refineries
Food Processing	2708, 2716 (NSF)	Potable water lines
Power Plants	2705, 2706	Steam valves & turbines
Automotive	2701, 2703	Engine gaskets, oil pans

Standards & Certifications

- API 6FB: Fire-safe testing (Styles 2710, 2718).
- NSF/ANSI 61: Safe for drinking water (Styles 2708, 2716).
- ASTM F104: Compression recovery validation.
- EU REACH: Compliant with asbestos-free regulations.

EAL
Food & Water Sealing

How to Select the Right Material?

1. Identify Operating Conditions: Temperature, pressure, and media (e.g., steam, oil).
2. Choose Style by Application:
 - Low-Pressure Water/Oil: Style 2701 (Blue).
 - High-Temp Chemicals: Style 2704 (Light Blue).
 - Fire-Safe Critical: Style 2710 (Dark Blue).
3. Verify Certifications: NSF for food, API for oil/gas.

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Conclusion

Cohere's non-asbestos jointing sheets (Styles 2701–2718) offer a safe, high-performance alternative to asbestos, with tailored solutions for industries ranging from automotive to oil refineries. Their advanced composite technology ensures reliability while meeting stringent global standards.

Next Steps:

- Download Full Technical Manual
- Request Samples
- Consult Engineers



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