

# Graphite Rolls and Tape

## MATERIAL COMPOSITION AND APPLICATION

**Graphite rolls and tape** are manufactured from high-purity natural flake graphite using advanced chemical processing and precision mechanical forming. These materials offer excellent thermal stability, chemical resistance, and sealing performance across a wide temperature range. Key characteristics include superior compressibility and recovery, oxidation resistance, low creep relaxation, self-lubricating properties, and long-term service reliability. Expanded graphite is widely used as a sealing medium for die-formed packing rings, spiral wound gaskets, and a variety of static sealing applications. Available grades include industrial grade, oxidation-inhibited grade, corrosion-inhibited grade, low-sulfur grade, and nuclear grade.

| PROPERTIES       | INDUSTRY GRADE | OXIDANT INHIBITOR | LOW SULFUR | NUCLEAR GRADE |
|------------------|----------------|-------------------|------------|---------------|
| Carbon Content   | ≥98%           | ≥99%              | ≥99%       | ≥99.8%        |
| Ash Content      | ≤2%            | ≤1%               | ≤1%        | ≤0.2%         |
| Sulphur Content  | ≤1200 PPM      | ≤1000 PPM         | ≤500 PPM   | ≤200 PPM      |
| Chlorine Content | ≤50 PPM        | ≤35 PPM           | ≤35 PPM    | ≤30 PPM       |
| Compressibility  | 35~55%         | 40~50%            | 40~50%     | 40~50%        |
| Recovery         | 10~15%         | 10~15%            | 10~15%     | 10~15%        |
| Tensile Strength | ≥4.0MPa        | ≥4.0MPa           | ≥4.0MPa    | ≥3.5MPa       |
| Ignition Loss    | 450°C/H        | ≤1%               | ≤0.5%      | ≤0.5%         |
|                  | 670°C/H        | ≤20%              | ≤4%        | ≤20%          |
| Creep            | <5%            | <5%               | <5%        | <5%           |

## OFFERING

### PS-860

Expanded Graphite Roll

### PS-860 (A)

Expanded Graphite Roll with Adhesive Backing

### PS-861

Expanded Graphite Plain Tape

### PS-862

Expanded Graphite Netting Tape

### PS-802

Expanded Graphite Crinkled Tape

### PS-867

Expanded Graphite Plain Tape with Adhesive Backing

### PSZ-867

Expanded Graphite Crinkled Tape with Adhesive Backing

**Density** 0.7~2.0 g/cm<sup>3</sup>

**Length** 5~15 (m)

**Width** 03~1500 (mm)

**Thickness** 0.1~1.5 (mm)



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All information in this data sheet is based on data believed to be reliable; however, we make no guarantee or warranty of the performance of graphite rolls and tape. Due to numerous application-specific factors that can influence service life, it is always advisable to first test graphite rolls and tape in a particular application to determine their ultimate suitability.

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