



THE TUBE PACKAGING

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PAPER TUBES: VERSATILE AND SUSTAINABLE SOLUTIONS

Introduction

- Paper tubes are cylindrical structures made from layers of paperboard or kraft paper.
- Used in various industries for packaging, construction, and creative applications.
- Eco-friendly and recyclable alternative to plastic and metal tubes.



TYPES OF PAPER TUBES

1. **Spiral Wound Tubes** – Manufactured by winding layers of paper at an angle.
1. **Convolute Wound Tubes** – Made by wrapping paper layers parallel to the tube's axis.
1. **Parallel Wound Tubes** – Paper layers are wrapped straight along the length.
1. **Composite Tubes** – A mix of paper and other materials for added strength.

MANUFACTURING PROCESS

Paper sheets are
glued and wound
around a
mandrel.

Compression
and drying
ensure
structural
integrity.

Cutting and
finishing processes
customize tubes for
specific
applications.

CONCLUSIONS AND NEXT STEPS

- Paper tubes offer a sustainable and versatile solution across industries.
- Growing demand for eco-friendly packaging is driving innovation.
- A promising alternative to traditional materials with ongoing improvements
- Limited resistance to moisture and heavy loads.
- Need for wider industry adoption.
- Advancements in biodegradable coatings and improved durability.



THANK YOU
VERY MUCH!

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