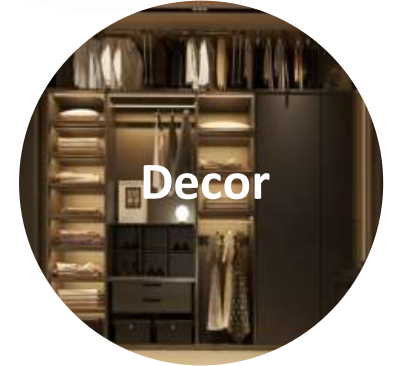
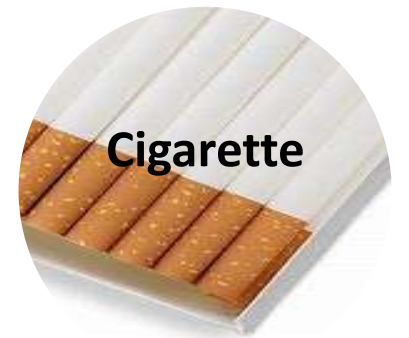
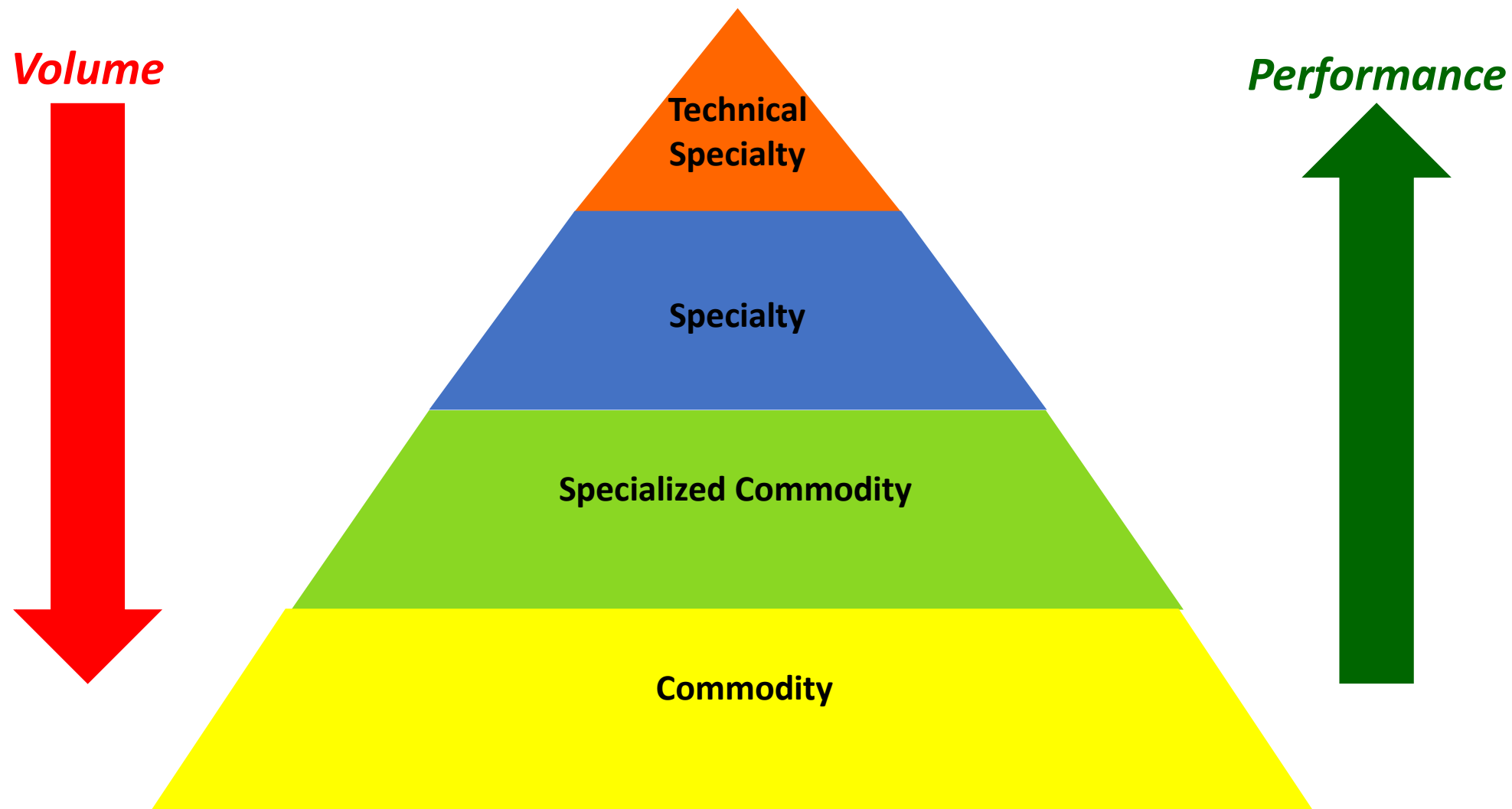


Specialty Paper







Specialty paper introduction



Specialty paper has uniqueness in terms of end applications, manufacturing and requires specific know-how to imbibe the same.

➤ It requires special design of machine, Raw Material & Know how



01

Thin Paper- having high Opacity & Strength properties.



02

Special characteristics like resistance to fire, acid and alkali.



03

Higher dimensional stability & light fastness



04

Suitable for plastic substitution (Desired MVTR & OTR)



05

Imbibe Oil and grease resistance

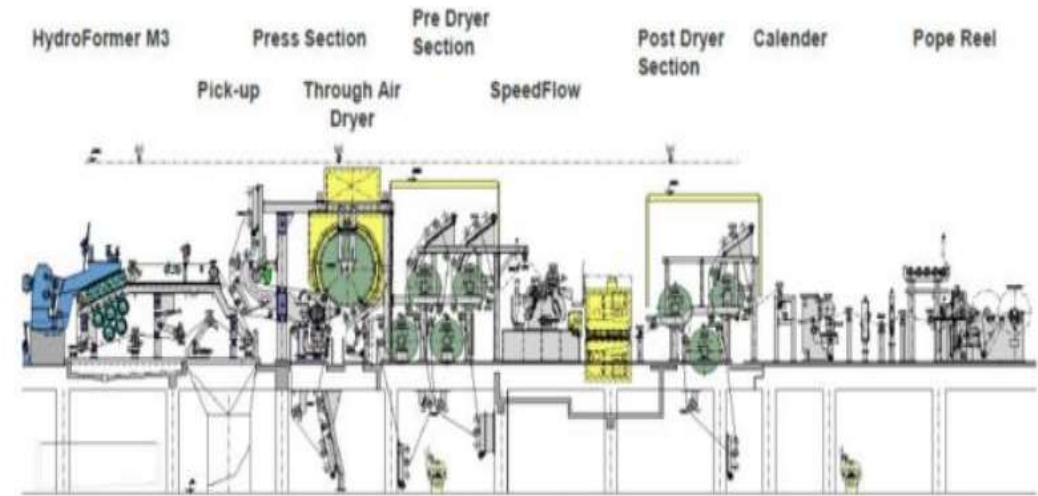
What is Specialty Paper

Specialty Paper

Paper requiring

- Unique Properties to satisfy end application
- Unique Raw materials to manufacture the product
- Customized Hardware
- Unique Know How

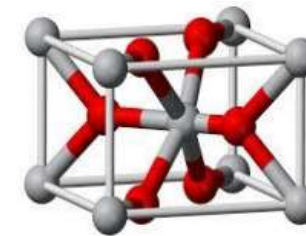
Inclined Wire Machine



Unique Raw materials:



High Refractive Index 2.76



Tetrahedral shape



Eucalyptus Globulus

Types of specialty paper

Decorative paper

Wallpaper

Foil Paper

Gift Wrapping Paper

Packaging Paper

Parchment base paper

Kraft Paper

Wax paper

Glassine paper

OGR paper

Medical Grade

Print Release paper

Filter paper

Air filter paper

Coffee Filter Paper

Green filter for cigarette

Security Paper

Bank Note

Security Thread paper

Holographic paper

Technical paper

Electrical Insulating &
Battery separator

Release Liner/Fem care

Carbon/NCR paper

Overlay

Décor

Tissue Paper

Tea Bag paper

VCI paper

Packaging Paper

Kraft paper

Key Features

- Strong, durable & naturally brown(unbleached).
- Fully recyclable & biodegradable
- **Unbleached Kraft**

Manufacturing/ Converting

High refining & Uniform
Distribution

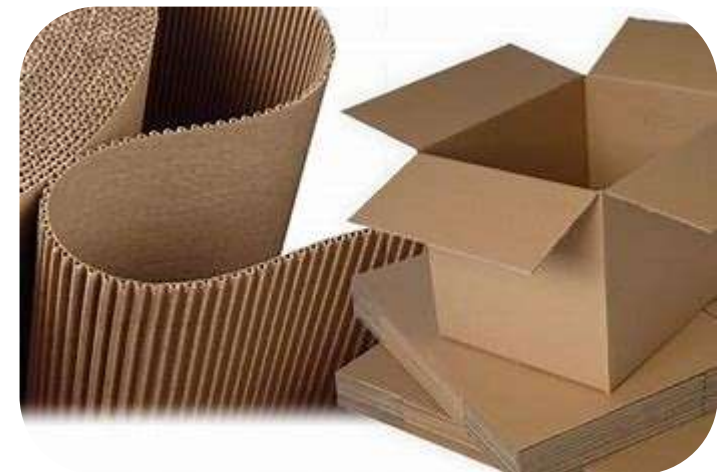
Good fluting & glue
carrying capacity

CTQ

- High tensile
- High stretch
 - High Tear
- High Bursting strength
- MVTR / OTR (if any)

End use

Packaging of delivery items
for Amazon, Flipkart,
Myntra.
Insulation of electrical
appliances
Barrier application



Parchment Paper

Parchment paper

Key Features

- Heat resistance
- Non-Stick Surface
- Food Safe Product
- Versatile Usage
- Moisture Resistant
- **High Bulk Eucalyptus & Low coarseness SW**

Manufacturing/ Converting

Low refining to protect bulk and porosity

During conversion paper undergoes acid- alkali impregnation & converted to gel and seal the surface

CTQ

- High tensile
- Low Gurley Porosity
- Good dispersion of cellulose during parchmentation

End use

- Baking
- Food wrapping
- Food presentation
- Textile cone



Opaque Glassine Paper

Opaque Glassine
paper

Key Features

- Barrier Properties
 - Durability
 - Versatility
- Eco – Friendly
- Smooth Surface
- **High SW%**

Manufacturing/ Converting

High refining & Uniform drainage

Supercalendering for better gloss & impervious to moisture.

CTQ

- High Smoothness
 - Low Porosity
- High Tensile Strength
- Uniform Thickness
- Better printability

End use

- Food packaging
 - Labelling
 - Arts & Crafts
- Notebooks & Journals



Printing Grades

Printing Grades

Key Features

Specialty printing

Manufacturing/ Converting

Separate refining of HW
& SW.

Better mixing of ratio
Excellent distribution

Good printability &
dimensional stability

CTQ

- Good caliper for better foldability
- Good water Cobb
- Better Opacity & Brightness

End use

Pharma inserts
Magazine printing
Religious books



Release Liner

Release paper

Key Features

- Eco – Friendly
- Temperature resistant
 - Heat stability
 - Cold flexibility
- Dimensional Stability
 - **High Strength**
- Bleached SW & HW**

Manufacturing/ Converting

High Refining & Uniform
drainage
Supercalendering
Siliconization or hot melt
carrying capacity

CTQ

- High Gurley
- High Smoothness
- Uniform Thickness
- Better Printability

End use

Adhesive tapes
Bar code labels
Crafts & DIY projects



Vapor Corrosion Inhibitor(VCI) Paper

VCI paper

Key Features

- Corrosion Resistance
 - Eco friendly
- Moisture resistant
- **Unbleached Kraft**
With Better
absorption of
Chemical

Manufacturing/ Converting

Separate refining for
uniform porosity.

During coating chemical
vapors should be inert to
avoid oxidation

CTQ

- Chemical
Compatibility
- High shelf life
- Corrosion Inhibition
Efficiency

End use

- Metal parts packaging
 - Electronic
components
packaging
- Art & Antiques



Battery Separated Paper

Battery separator paper

Key Features

- Electrical insulation
- Chemical Resistance
- Mechanical Strength
- Thermal Stability
- **Kraft Having Good carrying capacity for ceramic / Glass fibre coating**

Manufacturing/ Converting

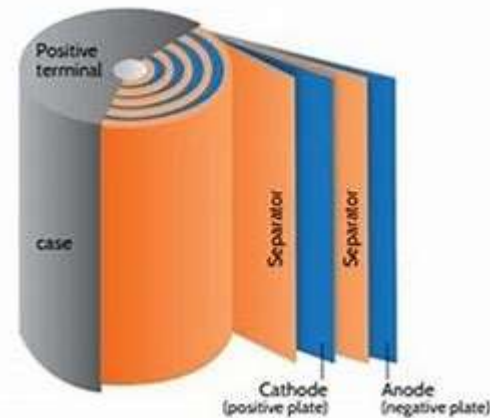
Separate refining to have low porosity & conductivity
Ceramic coating or glass fibre to avoid short circuit by isolating cathodes and anodes.
Acts as reservoir for electrolytes

CTQ

- Low Porosity
- High Dielectric Strength
- Uniform Caliper
- High Thermal Resistance

End use

- Lead Acid Batteries
- Lithium-Ion batteries
- Specialty batteries
 - Medical
 - Aerospace



Oil and Grease resistant

OGR paper

Key Features

- Eco friendly
- Food packaging
- BRC certification required
- **Low Sulphate & Chloride content pulp**

Manufacturing/ Converting

High refining to imbibe low porosity & uniform distribution
PFAs free film formation required. Otherwise bonding with hydroxyl group of fiber is important

CTQ

- High strength properties
- KIT values
- Slip easy

End use

- Burgers wrapping
- Bakery applications
 - Roti wraps
 - Deep freeze application



Anti Rust Tissue

Anti Rust Tissue

Key Features

- Protect metal surfaces from rust & corrosion
- **Bleached Pulp Having medium porosity to avoid corrosion**

Manufacturing/ Converting

Separate refining with unique mixing ratio

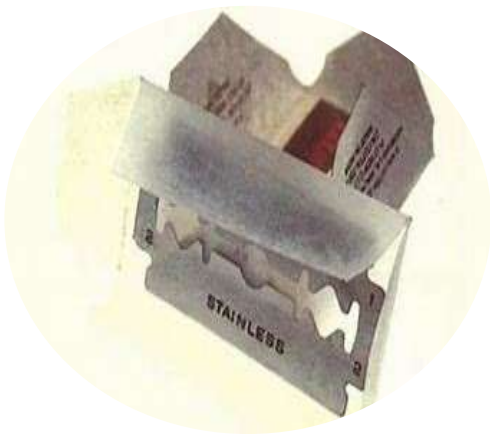
Unique chemistry to act as corrosive inhibitor doesn't allow bacteria to grow on surface for oxidation

CTQ

- Required stiffness
- Good benzoate content
- Better Water Cobb

End use

Used as covers for blades to avoid rusting



Fem Care Paper

Kraft paper

Key Features

- Eco – Friendly
- Skin Friendly
- Odor Control
- Discreetness
- **High strength, Low porosity pulp for silicone carry**

Manufacturing/ Converting

High refining for low porosity
During conversion better silicon capacity

CTQ

- High Absorbency
 - High tear

End use

- Sanitary Napkins
 - Panty Liners
- Post Partum napkins



Medical Grade Paper

medical paper

Key Features

- Sterility
- Breathability
- Eco – Friendly
- Medical Compatibility
- EN868 compliance
- **High Strength & Low porosity Pulp**

Manufacturing/ Converting

High refining to have low max pore diameter
Good sealing property with PE or PP.
During sterilization, ETO enter inside & residual to go out easily to avoid corrosion

CTQ

- Max Pore Diameter
- Uniform Thickness
- Better Printability
- High Tensile
- ETO Sterilization

End use

- Surgical Wrapping
- Medical Labels
- Grit coated paper



Grit coated medical Paper



Sterilize medical Paper



NCR paper

NCR paper

Key Features

- Multi layered Structure
- Customizable Formats
 - Durable
- Unique Chemistry
- **High Porosity Pulp**

Manufacturing/ Converting

Separate refining for low & uniform porosity.

During micro capsulation uniform coating required

CTQ

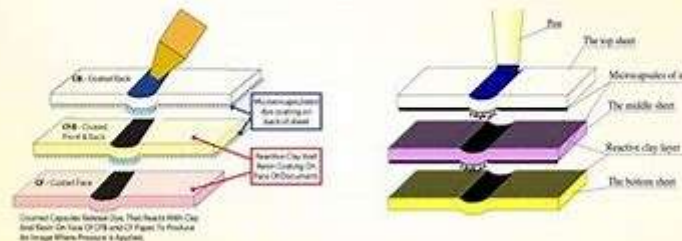
- High Gurley porosity
- High Smoothness
- Uniform Thickness
- High Light Fastness

End use

- Business Forms
- Manufacturing Segment
- Service Industries



CARBONLESS PAPER AT WORK



Print release Paper

Print Release paper

Key Features

- Release coating
- Smooth Surface
 - Durability
- Compatibility with different Printing technologies
- **High Strength & low silica content pulp**

Manufacturing/ Converting

Separate refining for uniform & Low porosity

Uniform amorphous silica coating on surface

Good printing & easy release

CTQ

- High Smoothness
 - High Tensile
- Good Surface Release
- Better Dimensional Stability

End use

- Labelling
- Packaging
- Graphic Arts
- DIY Project
- Electronics



Key Features

Specialized paper for laminates,
furniture surfaces
interior design
applications
**Eucalyptus Globulus or
Grandis**

Manufacturing/ Converting

Low uniform refining to
protect hollow lumen of
fiber for better retention
& capillary.

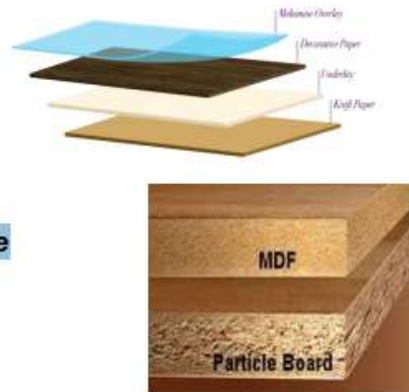
Good printability &
Impregnation

CTQ

- Good laminate opacity
- Dimensional stability
- High wet strength
- Good Printability
- Uniform Porosity
- Light Fastness

End use

- Office décor
- Home décor
- Interior design
 - HPL/LPL



Cigarette paper

Cigarette Grades

Key Features

- Biodegradable and eco friendly
- Textures and burn rates variability
- **Low coarseness softwood & High Strength HW**

Manufacturing/ Converting

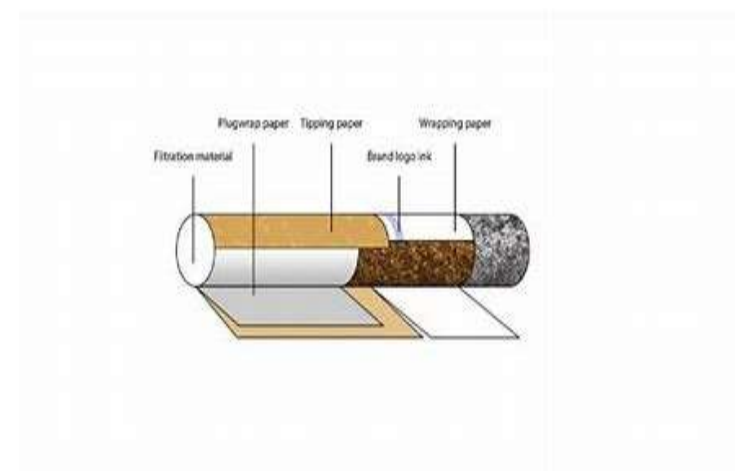
Separate & High refining equivalent to glue pulp
High TEA for better runnability during cigarette manufacturing

CTQ

Uniform porosity
High Optical property
Uniform combustibility
High TEA

End use

Office décor
Home décor
Interior design



Overlay Paper

Overlay Grades

Key Features

- Highly transparent
- Scratch & abrasion resistant
 - Eco friendly
- **High Alpha cellulose content Pulp**

Manufacturing/ Converting

Low refining with proper mix of fiber.
Good Printability and dimensional stability after impregnation

CTQ

- High wet strength
- Good Caliper
- Smoothness

End use

- Crockery
- Barrier paper for laminates



Decorative paper

Decorative Grades

Key Features

- Dust free
- **Eucalyptus & Others for better dimensional stability**

Manufacturing/ Converting

Unique fiber or synthetic fiber with inclined headbox of very low consistency.
During lacquering, paper to withstand wettability

CTQ

- High Bursting
- High tear
- Low porosity
- Dimensional stability
- Better printability

End use

- Gift wrapping
- Foil paper
- Wall paper
- Holographic paper



Filter Paper

Filter paper

Key Features

- Effective separation of solids from liquids or gases
- Designed to withstand acids, bases and solvents
 - Heat resistant

Manufacturing/ Converting

Very low refining for uniform porosity & caliper

Uniform coating during conversion & dimensional stability

CTQ

- Better porosity
- Good strength properties
- Folding endurance
- Dimensional stability

End use

- Air filter paper
- Coffee filter paper



Tea Bag Paper

Filter paper

Key Features

- Effective separation of solids from liquids or gases
 - Heat resistant
- **Abaca (Manila Hemp) pulp having both dry & wet strength**

Manufacturing/ converting

Low refining & Inclined wire machine for uniform porosity

Better dimensional stability & wettability

CTQ

- Better porosity
- Good strength properties
- Folding endurance
- Dimensional stability

End use

- Tea bag paper



Security Paper

Security paper

Key Features

- Main focus on Counterfeit in sensitive documents
- Prevention of forgery
- Embedded or printed watermarks.
- **Cotton Linton**

Manufacturing/ converting

High refining & special refiners (earlier Hollander beaters) used for fiber treatment

Good printability & dimensional stability.

CTQ

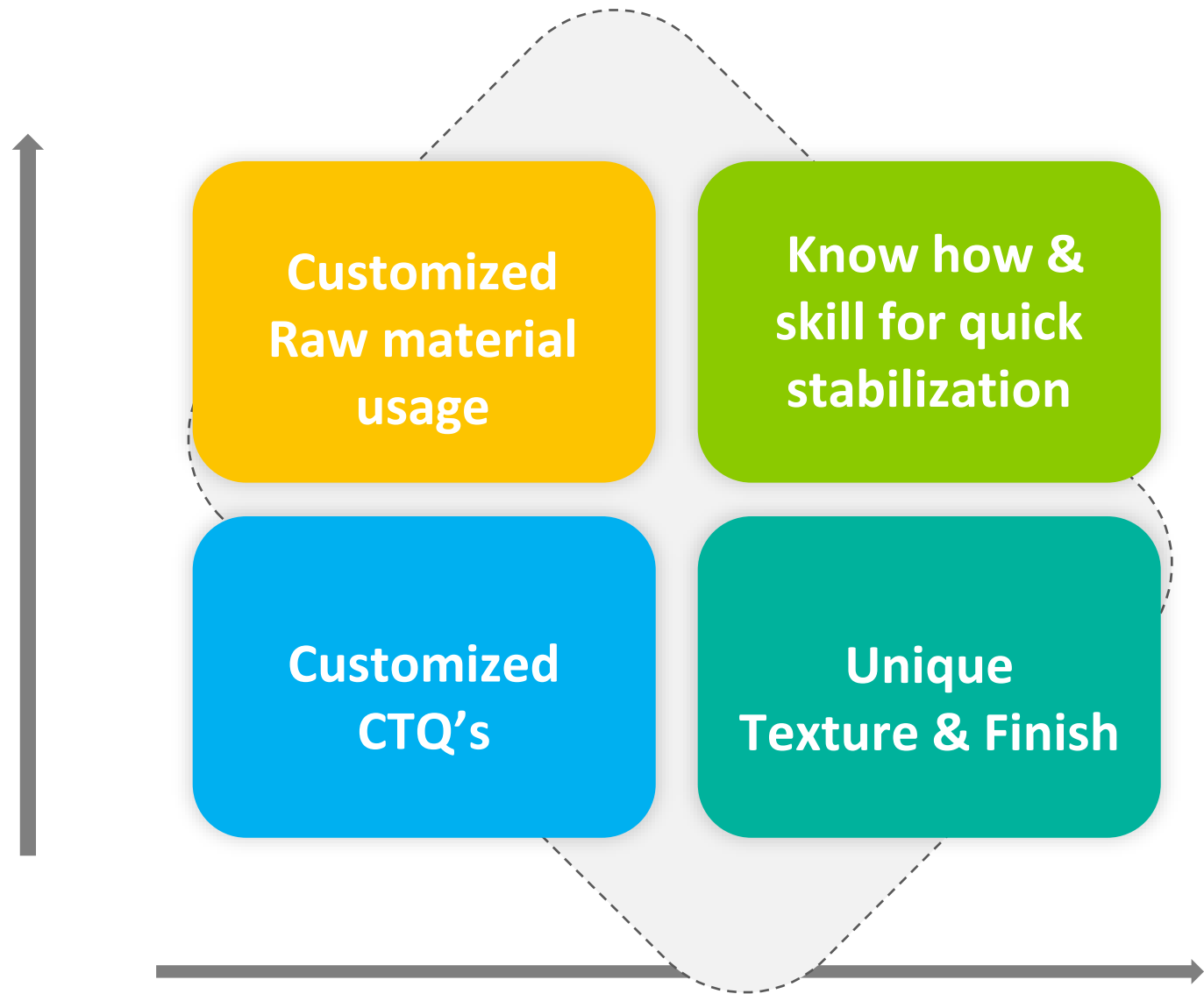
- Good strength properties
- Folding endurance
- Better porosity

End use

- Check book paper
- Currency paper
- Security thread paper



Uniqueness of Specialty paper against writing printing



Conversion Quality



Thank You