dinesh
FELTS

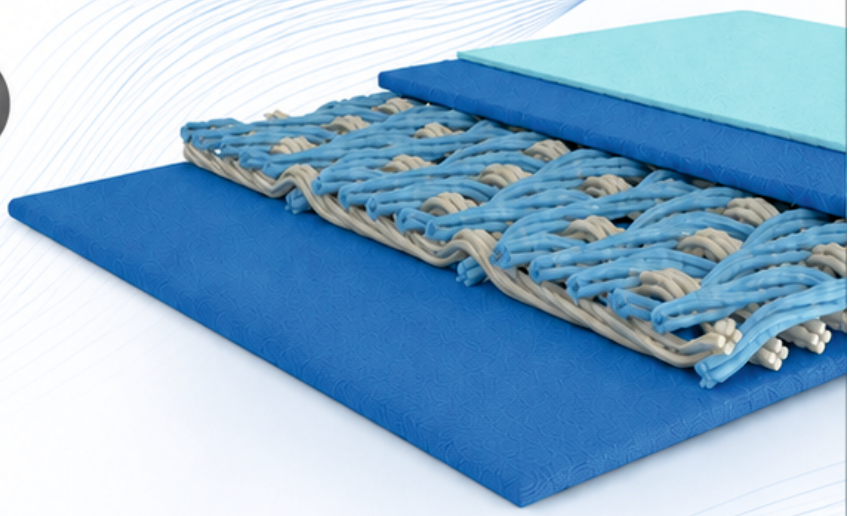
PRESS FABRICS

WEAVING EXCELLENCE,
DRIVING PERFORMANCE.



dinesh FELTS

AQUAFLO



AQUAFLO is a permeable felt with a single layer base construction available in a variety of weave patterns combined with different yarn components.

The extensive design range allows the choice of optimum fabric design for a given application.

Optimum combination of weaves, MD and CMD yarns guarantee high dimensional stability.

APPLICATION

- Bottom pickup and baby press positions of multi cylinder mould machines.
- For presses with low press nip load upto 60Kg/Cm.
- Also suitable for bottom position in Tri-nip press for News print/ Writing printing grade machines.

FEATURES

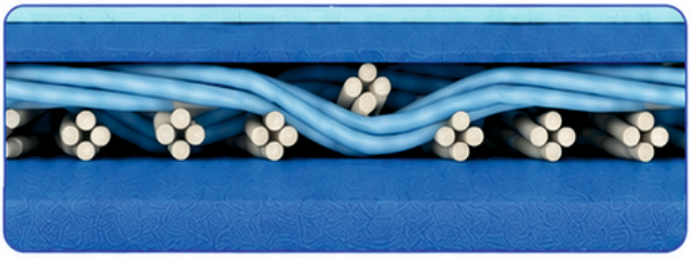
- Permeable base construction
- Better de-watering at uhlebox
- Flexible base structure
- Easy Sheet Pick up

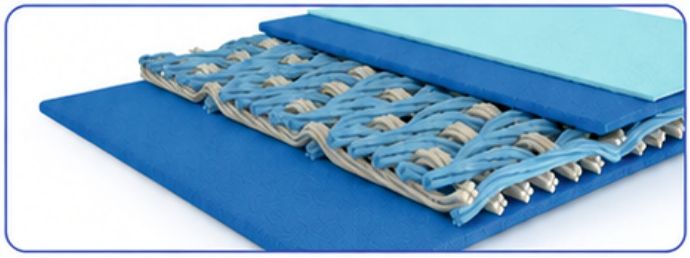
ADVANTAGES

- Easy drainage at press nip
- No crushing even at low vacuum.
- Easy to install.
- Lesser startup time

TECHNICAL SPECIFICATIONS

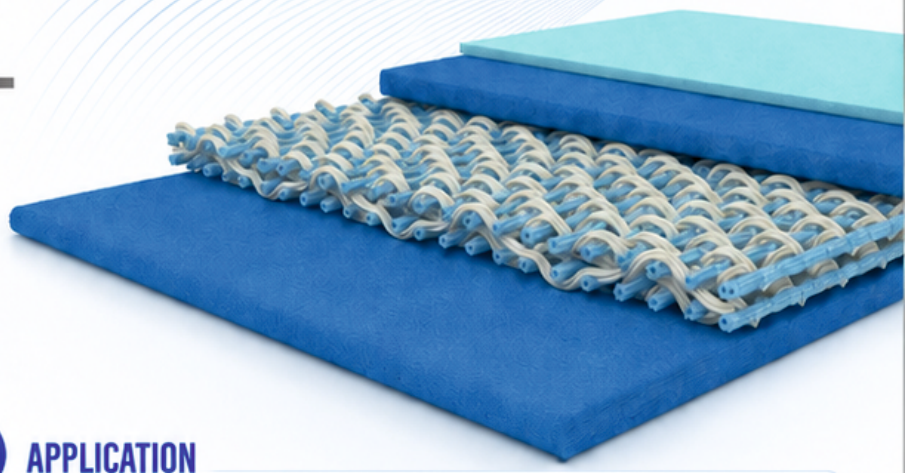
Permeability	:	50 –130 cfm
Basis weight	:	850 - 1200 GSM
Caliper	:	2.20 – 2.90 mm
Weave	:	Single layer
Treatment	:	Pre-compaction and wetting up treatment.





dinesh
FELTS

AQUAVENT



AQUAVENT is an integrally woven double layer felt, commonly using plied monofilaments in both MD and CMD.

Base weaves and MD yarns are selected by application requirements.

The fabric construction is specially created to resist premature compaction, better water handling capacity and uniform pressure distribution on medium loaded presses.

APPLICATION

- Plain presses with medium nip load, for finer and specialty grades.
- Suitable for suction pick-up and second press position on medium speed bi-nip / uni-press.
- Most suitable for bottom position of tri-nip press for finer and newsprint grade.
- Suitable for machines with nip load up to 80Kg/Cm for kraft grade paper.
- Suitable for first press and second press top and bottom position on machines producing high BF kraft grade and duplex board.

FEATURES

- Higher composition of base fabric compared to single layer and conventional double layer
- Good void volume under load
- High compaction resistance
- High de-watering
- Compressible in press nip
- Good marking resistance
- Higher wear resistance

ADVANTAGES

- Good compaction characteristics.
- Improved water handling capacity
- Void volume is maintained for a longer period.
- Higher press solids.
- Fast start up
- Resists shadow / groove marking
- Good life expectations
- Excellent nip vs uhle box de-watering

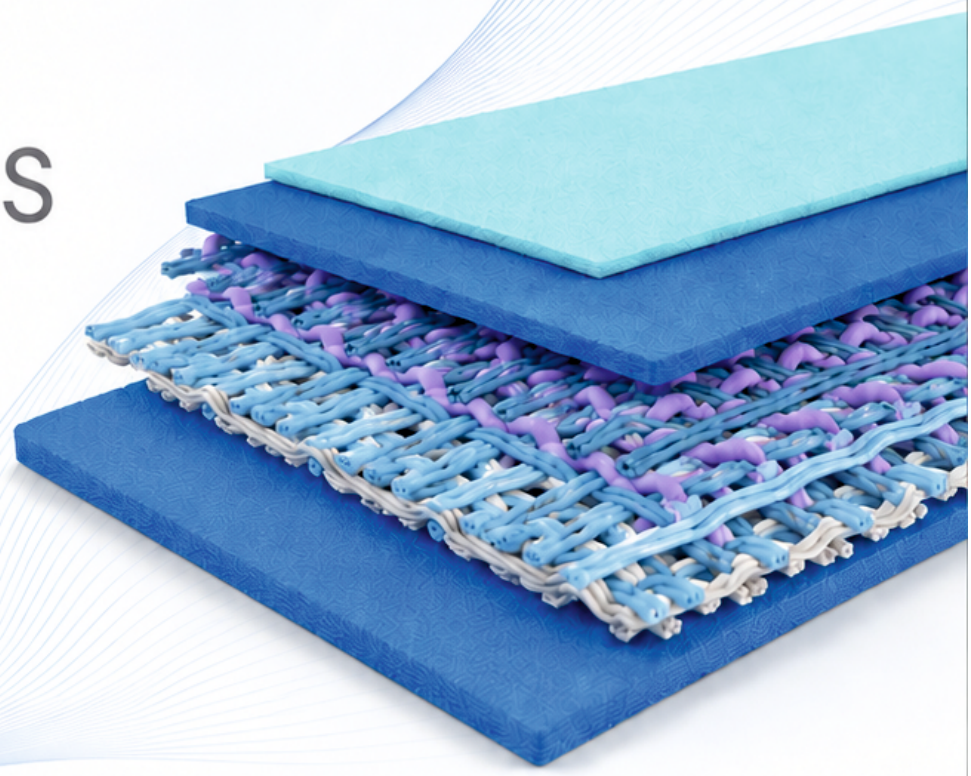
TECHNICAL SPECIFICATIONS

Permeability	: 50 -120 cfm
Basis weight	: 1250 - 1550 GSM
Caliper	: 2.70 - 3.40 mm
Weave	: Double layer
Treatment	: Pre-compaction and wetting up



dinesh FELTS

AQUAPLY-S



AQUAPLY-S is a double base laminated felt with two separate single layer bases.

Typical laminated (1+1) design consists of a bottom base for optimum void volume and load bearing properties and a suitable top base as per the application to create more uniform and even pressure distribution in the press nip.

APPLICATION

- Pick up and press position on high speed machines for fine paper and newsprint grades.
- High nip load press positions for finer paper.
- Suitable on second press position of a bi-nip press (shoe press nip load of up to 800 Kg/Cm and nip width up to 280 mm)
- Suitable for bi-nip press manufacturing finer grade of paper and kraft paper
- Suitable for conventional roll presses on packaging and board grades.

FEATURES

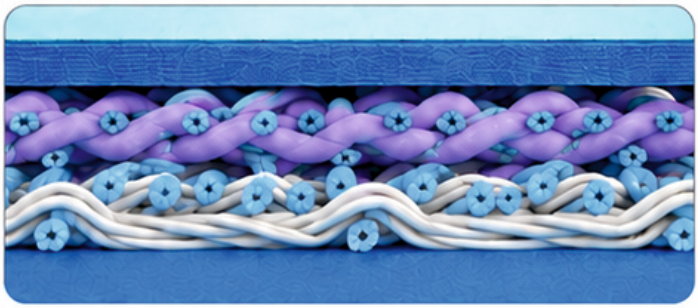
- Higher composition of base fabric compared to conventional double layer felt
- Steady state performance
- Compaction resistance
- Non marking
- Good surface characteristics
- Uniform pressure distribution

ADVANTAGES

- High de-watering level
- Consistent de-watering throughout the life
- Retention of void volume under high press nip load
- Resists grooved and blind drilled roll marking.
- Better sheet smoothness
- High sheet quality, better sheet smoothness and minimized two sided-ness.
- Better water handling capacity

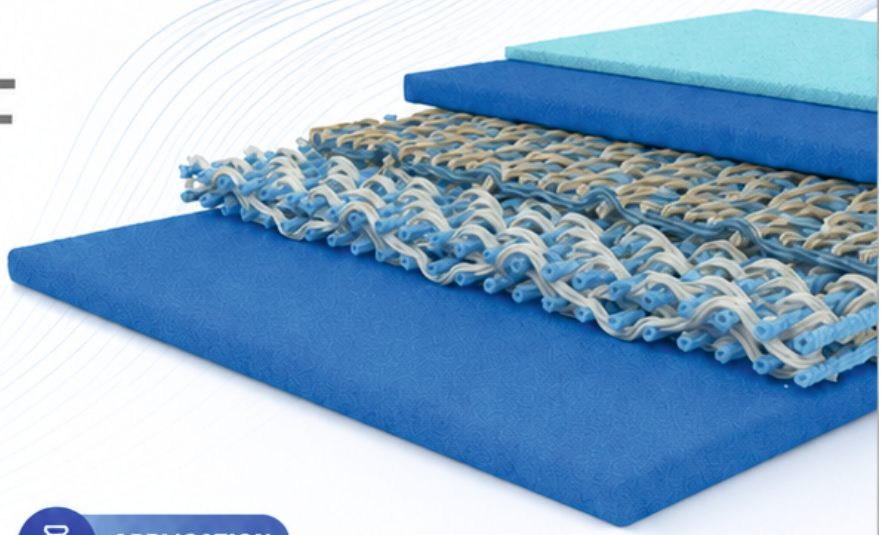
TECHNICAL SPECIFICATIONS

Permeability	:	30 - 90 cfm
Basis weight	:	1450 - 1650 GSM
Caliper	:	3.0 - 3.6 mm
Weave	:	Laminated twin base 1+1
Treatment	:	Pre-compaction & wetting up.



dinesh FELTS

AQUAPLY-F



AQUAPLY-F consists of a top single layer base structure laminated to a bottom double layer base structure.

The top and bottom base structures vary in weaves and MD and CMD yarn components depending upon the application requirements.

Usually this proven laminated (1+2) designs are supplied on positions which demand high void volume, excellent compaction resistance and maximum water handling capacity.

APPLICATION

- Suction pick up position of tri-nip machine for finer grade of paper and position where shadow marking is a chronic issue.
- Most suitable for second and third press positions of bi-nip machine and third and fourth press position of tri-nip machine.
- Most suitable for a third press position of a tri-nip manufacturing writing printing and newsprint grade with or without shoe press.
- Suitable for highly loaded presses (up to 350 Kg/Cm) producing liner kraft & board.

FEATURES

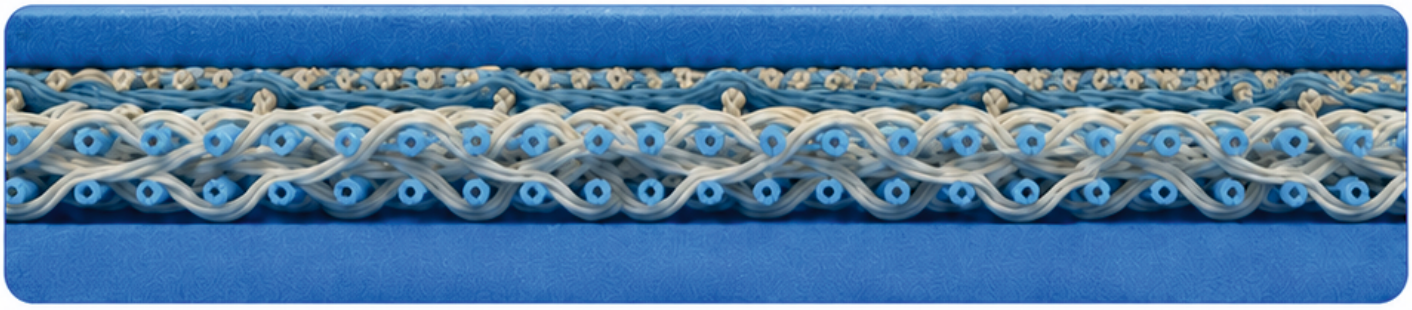
- Higher composition of base fabric compared to 1+1 laminated felt
- Steady state performance
- High compaction resistance
- Non- marking & finer surface
- Uniform pressure distribution
- High void volume & wear resistance

ADVANTAGES

- Very high de-watering level
- Consistent de-watering throughout the life
- Retention of void volume under high press nip load
- Excellent against sheet and roll marking
- Good sheet smoothness
- High sheet quality, better sheet smoothness and minimized two sidedness.
- Excellent water handling capacity & life expectations.

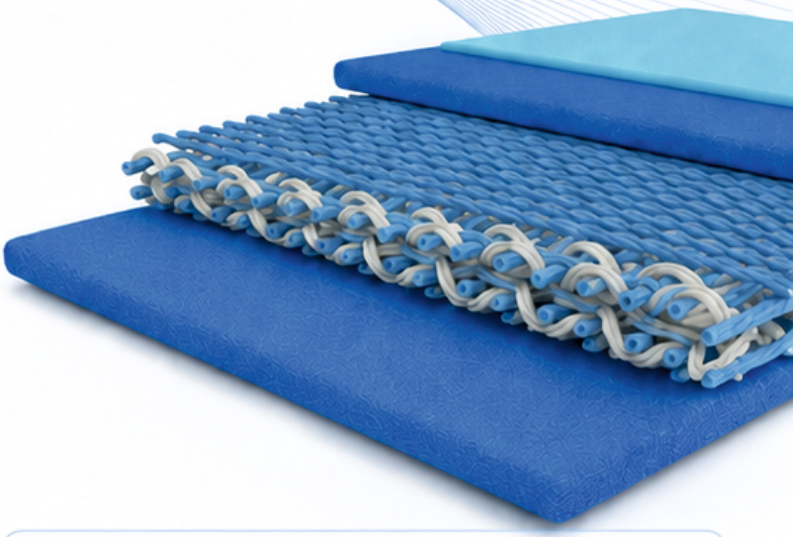
TECHNICAL SPECIFICATIONS

Permeability	:	30 - 70 CFM
Basis weight	:	1650 - 1900 GSM
Caliper	:	3.5 - 4.1 mm
Weave	:	Laminated twin base 1 + 2
Treatment	:	Pre-compaction & wetting up



dinesh FELTS

XYLOCROSS



XYLOCROSS is a laminated design with a top base as a non woven substrates with cross wise plied mono yarns, and a bottom base which can be a single layer or double layer woven structure.

The weave and yarn components of the bottom base are determined by the application requirements.

The concept of a cross less top base and woven bottom base optimizes the effectiveness of the void volume in the nip.

The main feature of XYLOCROSS is that cross wise yarns of top base operate as micro foils which take the water in to the felt, fast and intensively.

XYLOCROSS felts are characterized for fast startup and better nip dewatering than usual laminated felts.



APPLICATION

- Suitable for press positions where nip de-watering is essential.
- Most suitable for shoe press position of high speed machine above 1000 MPM.

ADVANTAGES

- Water flow is optimally directed from paper to roll side.
- Less re-wetting and better pressure uniformity
- Low air permeability to achieve better nip de-watering
- More compressible and has low void volume
- Better life & de-watering mainly in nip
- Lowest transversal flow resistance
- Fast start-up

FEATURES

- Combination of fine upper base & incompressible bottom base
- De-watering properties
- Permeability
- Compression property
- Wear resistance
- Balanced de-watering at nip/uhle box
- Flow resistance
- Pick-up property

TECHNICAL SPECIFICATIONS

Permeability	:	30 - 50 cfm
Basis weight	:	1500 - 1700 GSM
Caliper	:	3.0 - 3.4 mm
Weave	:	Laminated base with 1 + 1 and 1 + 2
Treatment	:	Phe-compaction & wetting up

dinesh FELTS

XYLO TISSUE



Dinesh Felts has a wide range of felts for different tissue machine applications.

Different designs, base weave, yarn components and batt substrates are selectively and precisely adapted to the individual needs of the tissue machines.

Main categories of tissue felts are, Single layer, Double layer, Double base 1+1 Laminated.

APPLICATION

- Normal double layer most suitable for Crescent formers.
- Can also be used on single felted Fourdrinier machines of speed more than 500 MPM

ADVANTAGES

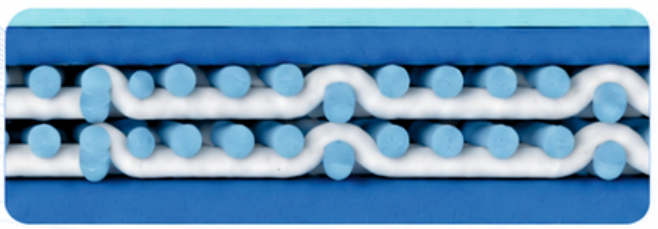
- High de-watering level
- Extremely uniform pressure distribution in nip
- Better sheet pickup and free of pin holes in paper
- Better life & no sheet marking
- Better sheet profile
- Excellent startup

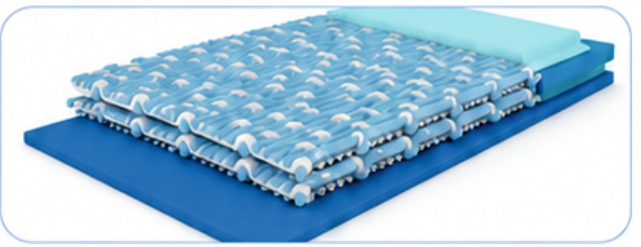
FEATURES

- Twin base laminated 1+1
- Fine top base
- Finer top surface of felt
- Wear resistance
- Non- marking
- Uniform pressure distribution
- Pre-compaction

TECHNICAL SPECIFICATIONS

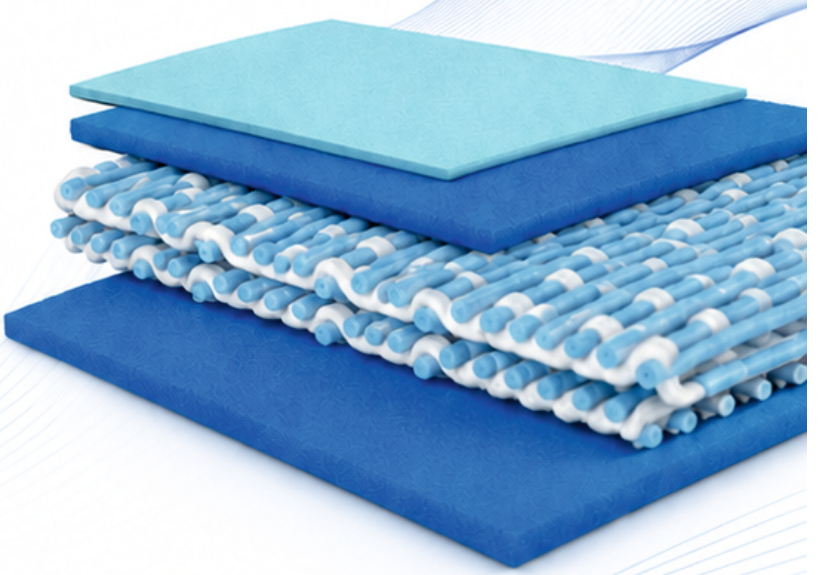
Permeability	:	15 - 30 cfm
Basis weight	:	1200 - 1300 GSM
Caliper	:	2.6 - 2.8 mm
Weave	:	Double layer
Treatment	:	High Pre compaction and wetting up





dinesh FELTS

XYLOTISSUE LAMINATED



Dinesh Felts has a wide range of felts for different tissue machine applications.

Different designs, base weave, yarn components and batt substrates are selectively and precisely adapted to the individual needs of the tissue machines.

Main categories of tissue felts are,
Single layer, Double layer, Double base 1+1 Laminated.

APPLICATION

- Double base 1 + 1 laminated most suitable for Crescent formers.
- Can also be used on single felted Fourdrinier machines of speed up to 1200 MPM.

ADVANTAGES

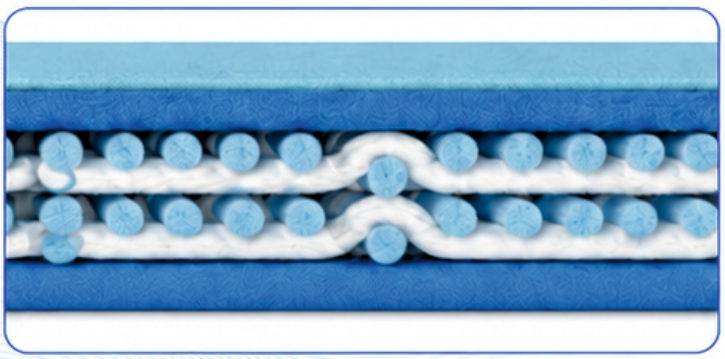
- High de-watering level
- Extremely uniform pressure distribution in nip
- Better sheet pickup and free of pin holes in paper
- Better life & no sheet marking
- Better sheet profile
- Excellent startup

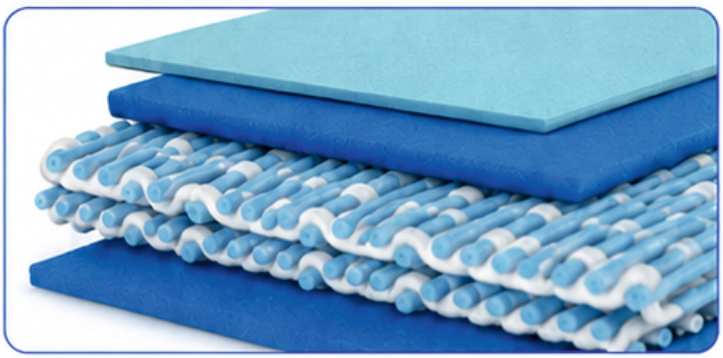
FEATURES

- Twin base laminated 1 + 1
- Fine top base
- Finer top surface of felt
- Wear resistance
- Non- marking
- Uniform pressure distribution
- Pre-compaction

TECHNICAL SPECIFICATIONS

Permeability	:	15 - 30 CFM
Basis weight	:	1250 - 1400 GSM
Caliper	:	2.6 - 2.9 mm
Weave	:	Double base 1+1 Laminated
Treatment	:	High Pre compaction and wetting up



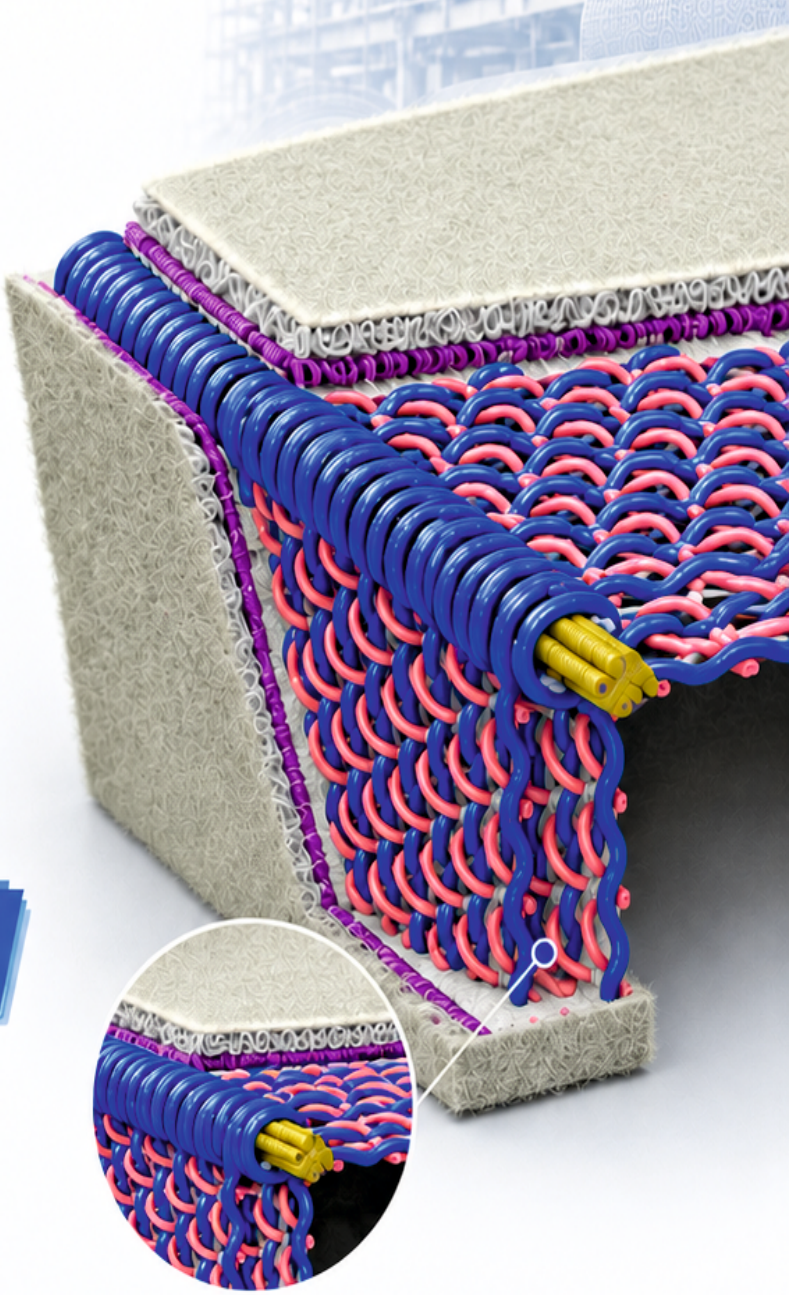


dinesh
FELTS

NEW PRODUCT

SEAM FELTS

NOW AVAILABLE



Advanced seamed felt solutions engineered for easier installation, reduced downtime and dependable performance.

Easy Installation

Reduced Downtime

Reliable Performance

WHY DINESH FELTS

dinesh FELTS

Manufacturing strength, technical support and application expertise

Serving customers across Asia, the Middle East, Africa and other international markets.



60+ YEARS

of manufacturing heritage

400,000 SQ FT

manufacturing footprint

500 MT

annual manufacturing capacity

DEDICATED IN-HOUSE R&D

laboratory

GLOBAL-GRADE TESTING EQUIPMENT

for field diagnostics

EXPERT TECHNICAL FIELD TEAM

and structured value-added support

STRUCTURED TECHNICAL ENGAGEMENT

1. **DISCOVERY**
   Understand operations and performance baseline.
2. **GAP ANALYSIS**
   Identify gaps across the press section and key operating parameters.
3. **FEASIBILITY STUDY**
   Evaluate solutions, define goals and assess practicality.
4. **PROPOSAL & EXECUTION**
   Deliver roadmap, implement solutions and drive measurable performance improvements.


dinesh
FELTS
WEAVING EXCELLENCE,
DRIVING PERFORMANCE.

dinesh
FELTS

WEAVING EXCELLENCE,
DRIVING PERFORMANCE.





GET IN TOUCH

Shri Dinesh Mills Ltd.
Near Indiabulls Mega Mall, Akota Road,
Vadodara 390 020, Gujarat, INDIA.

Tel.: +91 265 296 0060 /61/62/63

Email: felts@dineshmills.com

Website: www.dineshmills.com