

Application Notes

Water Soluble Sewing Thread – PVA Staple Fibre

Ne 40/2 – 2.5 kg Industrial Package

1. Product Overview

Durafil Water Soluble Thread is a spun PVA staple fibre yarn designed for temporary stitching applications.

The thread dissolves in water at temperatures $\geq 20^{\circ}\text{C}$ when sufficient agitation and liquor ratio are applied.

It is intended for use where temporary seam integrity is required prior to final washing or processing.

2. Recommended Applications

Suitable for:

- Temporary tacking during garment assembly
- Positioning seams prior to permanent stitching
- Embroidery stabilization stitches
- Quilting and layered fabric positioning
- Pocket, waistband, and placket alignment

- Pre-assembly reinforcement prior to wash removal
-

3. Suitable Fabrics

Compatible with:

- Cotton fabrics
- Polyester fabrics
- Cotton / polyester blends
- Light to medium-weight woven fabrics
- Light knitted fabrics (trial recommended)

Trial required for:

- Heavy fabrics
 - Dense constructions
 - Multi-layer assemblies
-

4. Sewing Guidelines

- Use moderate sewing speeds to minimize needle heat buildup.

- Avoid excessive thread tension.
 - Select appropriate needle size to reduce friction.
 - Avoid high-friction needle conditions.
 - Conduct sewing trials before bulk production.
-

5. Dissolution Process Guidance

- Minimum water temperature: 20°C.
 - Ensure adequate water circulation and agitation.
 - Insufficient liquor ratio may delay full removal.
 - Verify complete dissolution during pilot washing tests before production release.
-

6. Process Considerations

Dissolution performance is influenced by:

- Fabric density
- Stitch density
- Liquor ratio

- Water flow
- Wash duration

Always validate under actual production wash conditions.

7. Disclaimer

Performance depends on fabric structure, machine settings, and washing parameters.

Customer is responsible for conducting suitability trials prior to commercial production.

8. Contact for Technical Support

For technical queries:

Email: info@durafil-group.com