

Technical Data Sheet (TDS)

Water Soluble Sewing Thread – PVA Staple Fibre

Ne 40/2 – 2.5 kg

1. Product Identification

- **Product Name:** Durafil Water Soluble Thread
 - **Fibre Type:** PVA (Polyvinyl Alcohol) Staple Fibre
 - **Yarn Construction:** Ring Spun, 2-Ply
 - **Yarn Count:** Ne 40/2
 - **Approx. Linear Density:** ~29–30 tex
 - **Package Type:** 2.5 kg Industrial Cone / Cheese
 - **Intended Use:** Rewinding by sewing thread manufacturers
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2. Mechanical Properties (Typical Values)

| Property | Value |
|---------------------|-------|
| Breaking Strength | 625 g |
| Elongation at Break | 19 % |

Values tested under standard laboratory conditions.

3. Dissolution Properties

| Parameter | Specification |
|---------------------------------|---------------------------|
| Solvent | Clean water |
| Minimum Dissolution Temperature | 20°C |
| Agitation | Required |
| Residue | None when fully dissolved |

Dissolution performance depends on liquor ratio, agitation, and fabric density. Customer trials required before bulk production.

4. Rewinding Parameters (Critical Control Points)

This yarn is heat- and friction-sensitive.

4.1 Winding Speed

- Maximum recommended: ≤ 600 m/min

- Excess speed may generate friction heat and weaken yarn

4.2 Tension Control

- Maintain stable, low tension
- Avoid tension spikes
- Sudden tension increase may cause breaks

4.3 Friction & Heat

- Ensure smooth yarn path
 - Avoid overheated guides
 - Keep machine components clean
 - Monitor yarn temperature during high-speed wind
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5. Storage Conditions

| Parameter | Requirement |
|-------------------|---------------------|
| Temperature | 15–25°C recommended |
| Relative Humidity | 50–65% RH |
| Direct Sunlight | Avoid |
| Moisture Exposure | Prevent |

Store in original sealed packaging until use.

6. Application Scope

Suitable for temporary stitching applications requiring post-wash removal.

Compatible with:

- Cotton
- Polyester
- Blended fabrics

Application trials required.

7. Quality Control

Each batch tested for:

- Yarn count accuracy
- Breaking strength
- Elongation
- Dissolution verification
- Package weight

Full batch traceability maintained.

8. Packaging

- Net Weight: 2.5 kg
 - Industrial format for rewinding
 - Moisture-protected packaging
 - Export palletization available
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9. Disclaimer

Performance depends on machine settings and processing conditions.

Customer must conduct suitability trials prior to commercial production.

10. Support

For technical assistance or production-related inquiries:

Email - info@durafil-group.com