

Collar Alignment Applications in Garment Manufacturing

Durafil Water Soluble Thread (WST)

Technical Application Reference Document

1. Introduction

Collar alignment is a common operation in garment manufacturing where collar components must be temporarily held in position before permanent stitching is completed.

Accurate collar alignment is important for:

- Garment appearance
- Collar symmetry
- Production consistency
- Clean neckline construction
- Assembly efficiency

Durafil Water Soluble Thread (WST) can be used as a temporary stitching solution during collar assembly operations.

After washing, the temporary stitches dissolve and disappear.

2. Production Challenge

During garment assembly, collar components often require temporary stabilization before final sewing operations.

Common production challenges include:

- Movement of collar components during sewing
- Inconsistent collar alignment
- Shifting during handling
- Maintaining symmetry between collar sections
- Difficulty stabilizing lightweight or shaped collar constructions

Factories traditionally use temporary stitches to stabilize collar components before permanent attachment.

3. Traditional Method

In conventional garment production, temporary collar alignment is often achieved using:

- Standard sewing thread
- Manual tacking
- Temporary holding stitches

After permanent stitching is completed, operators manually remove the temporary stitches.

4. Limitations of Traditional Temporary Stitching

Manual removal of temporary stitching may create several production issues:

- Additional labour requirement
- Slower finishing operations
- Risk of accidental fabric damage
- Inconsistent removal quality
- Increased handling time

On lightweight or appearance-sensitive fabrics, manual stitch removal may increase the risk of:

- Surface damage
- Yarn pulls
- Marking
- Collar distortion
- Accidental cutting of the garment

5. Durafil Water Soluble Thread (WST) Solution

Durafil Water Soluble Thread (WST) provides a temporary stitching solution for collar alignment applications.

The thread behaves like a normal sewing thread during assembly operations, holding collar components in position during garment construction.

During washing, the temporary stitches dissolve and disappear.

This removes the need for manual stitch removal after sewing.

6. Typical Collar Alignment Applications

Durafil Water Soluble Thread (WST) may be used in applications including:

- Shirt collar alignment
- Uniform collar assembly
- Jacket collar positioning
- Stand collar constructions
- Shaped collar assemblies
- Lightweight collar constructions

The thread may be used wherever temporary collar stabilization is beneficial during production.

7. Operational Benefits

Using Durafil Water Soluble Thread (WST) for collar alignment can provide several operational advantages.

Reduced Labour

Temporary stitches dissolve during washing, reducing manual labour associated with stitch removal.

Improved Workflow

Collar assembly and garment construction can proceed without requiring a separate stitch removal operation.

Reduced Risk of Fabric Damage

Because temporary stitches dissolve during washing, the risk associated with manual cutting or pulling of stitches is reduced.

This is particularly beneficial for:

- Lightweight fabrics
- Delicate fabrics
- Shaped collar constructions
- Tightly woven fabrics
- Appearance-sensitive garment areas

Improved Collar Symmetry

Temporary stabilization helps maintain more consistent collar positioning and alignment during sewing and handling operations.

Cleaner Garment Finishing

After washing, the temporary stitching disappears, leaving only the permanent seam construction.

8. Garment Types

Collar alignment applications using Durafil Water Soluble Thread (WST) may be suitable for:

- Shirts
- Uniforms
- Jackets
- Fashion garments
- Lightweight woven garments
- Appearance-sensitive garment constructions

Production trials are recommended for specific garment constructions.

9. Production Outcome

Using Durafil Water Soluble Thread (WST) in collar alignment operations may help garment manufacturers:

- Simplify assembly workflow
 - Reduce manual finishing operations
 - Improve collar positioning consistency
 - Reduce handling complexity
 - Improve operational efficiency
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10. Related Application Areas

Additional temporary stitching applications may include:

- Cuff positioning
- Placket stabilization
- Decorative panel alignment
- Temporary seam holding
- Multi-layer fabric positioning

11. Disclaimer

Performance depends on garment construction, washing conditions, and production processes.

Users are responsible for conducting suitability trials under actual production conditions prior to commercial use.

12. Technical Support

For technical information regarding Durafil Water Soluble Thread (WST):

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