

# Collar Alignment Applications in Garment Manufacturing

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Durafil Water Soluble Thread (WST)

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Technical Application Reference Document

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## 1. Introduction

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

Collar constructions often involve shaped fabric sections, folded structures, interfacing materials, and appearance-sensitive garment areas requiring controlled alignment during sewing operations.

Accurate collar alignment is important for:

- Garment appearance
- Collar symmetry
- Neckline consistency
- Production quality
- 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 sections during sewing
- Inconsistent collar alignment
- Shifting during handling
- Maintaining symmetry between collar sections
- Difficulty stabilizing shaped collar constructions

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

Because collars are highly visible garment areas, even small positioning variations may affect final garment presentation.

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## 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.

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## 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
- Collar distortion
- Marking
- Accidental cutting of the garment

Repeated handling during finishing may also increase the risk of collar misalignment.

## 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.

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## 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.

### Improved Collar Alignment Stability

Temporary stitches help maintain accurate positioning and symmetry of collar components during sewing and handling operations.

### Reduced Manual Labour

Because the temporary stitches dissolve during washing, manual stitch removal operations can be reduced.

### 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 Production Flow

Collar assembly operations can proceed without requiring a separate stitch removal operation after sewing.

## Cleaner Garment Finishing

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

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## 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
- Temporary seam holding
- Decorative panel alignment
- 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.

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## 12. Technical Support

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

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