



# Lyocell

**The expert by nature**

**In counts 30 | 50 | 70 | 120**



The Gütermann solution made of 100 % cellulose fibre for garment dyeing of Cotton, Viscose and similar fabrics: For all new stretch fabrics containing Elastane and Lycra, for chemical wash treatments (e.g. laundry), where seam strength and elasticity is important.

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# Gütermann

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Resilient - by nature

|                   | Lyocell 30                                                                                                                                                                                                                                                                                       | Lyocell 50                                     | Lyocell 70                                                    | Lyocell 120                                                                          |                                 |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------|
| Applications      | Special thread for garment dyeing of natural fabrics such as cotton, rayon/viscose, Lyocell/Tencel.                                                                                                                                                                                              |                                                |                                                               |                                                                                      |                                 |
|                   | Decorative seams, eyelet buttonhole.                                                                                                                                                                                                                                                             | Closing seams and assembly, eyelet buttonhole. | Closing seams, decorative seams on light fabrics, buttonhole. | Closing seams, decorative seams on light fabrics, seam covering/serging, buttonhole. |                                 |
| Raw material      | 100 % Lyocell fibre®                                                                                                                                                                                                                                                                             | 100 % Lyocell fibre®                           | 100 % Lyocell fibre®                                          | 100 % Lyocell fibre®                                                                 |                                 |
| Advantages        | Particularly strong thread, which dyes similar to cotton, ideal extension characteristics suitable for stretch fabrics (less seam failure than with cotton sewing thread), stands up well to heavy laundry processing. Smaller needles can be used, advantageous when sewing fine knit garments. |                                                |                                                               |                                                                                      |                                 |
| Make-up           |                                                                                                                                                                                                                                                                                                  |                                                |                                                               |                                                                                      |                                 |
|                   | Size                                                                                                                                                                                                                                                                                             | 3.000 m                                        | 5.000 m                                                       | 5.000 m                                                                              | 5.000 m                         |
|                   | Shade range                                                                                                                                                                                                                                                                                      | Colour 111 (raw white)                         | Colour 111 (raw white)                                        | Colour 111 (raw white)                                                               | Colour 111 (raw white)          |
|                   | Needle size                                                                                                                                                                                                                                                                                      | NM 110 – 130/18 – 21                           | NM 90 – 100/14 – 16                                           | NM 90 – 100/14 – 16                                                                  | NM 70 – 80/10 – 12              |
|                   | In general: Smaller needles can be used compared to sewing with cotton thread.                                                                                                                                                                                                                   |                                                |                                                               |                                                                                      |                                 |
| Technology        |                                                                                                                                                                                                                                                                                                  |                                                |                                                               |                                                                                      |                                 |
|                   | Count                                                                                                                                                                                                                                                                                            | No./Tkt. 30-dtex 1.000(3)-tex 100              | No./Tkt. 50-dtex 600(2)-tex 60                                | No./Tkt. 70-dtex 400(3)-tex 40                                                       | No./Tkt. 120-dtex 250(2)-tex 25 |
|                   | Breaking strength                                                                                                                                                                                                                                                                                | > 2.710 cN                                     | > 1.650 cN                                                    | > 1.330 cN                                                                           | > 670 cN                        |
|                   | Elongation                                                                                                                                                                                                                                                                                       | > 10 %                                         | > 8 %                                                         | > 10 %                                                                               | > 7 %                           |
|                   | Boiling shrinkage (30 min.)                                                                                                                                                                                                                                                                      | < 1,3 %                                        | < 1,2 %                                                       | < 1,2 %                                                                              | < 1,2 %                         |
|                   | Thermal shrinkage (160 °C/30 min.)                                                                                                                                                                                                                                                               | < 0,8 %                                        | < 0,6 %                                                       | < 0,6 %                                                                              | < 0,5 %                         |
| Fastnesses        | The colour fastness depends on the garment dyeing process and the dyes used.                                                                                                                                                                                                                     |                                                |                                                               |                                                                                      |                                 |
| Care instructions | The care instructions depend on the garment dyeing process and the dyes used.                                                                                                                                                                                                                    |                                                |                                                               |                                                                                      |                                 |
| Dyeability        | Not all raw materials show the same colour reaction to the dye stuff used. We recommend sufficient preliminary tests before you go into production.                                                                                                                                              |                                                |                                                               |                                                                                      |                                 |
|                   | <div><div>www.guetermann.com</div><div>Gütermann</div></div>                                                                                                                                                                                                                                     |                                                |                                                               |                                                                                      |                                 |