

## FS No. 12

Article Description	Metallised Sewing and Stitching Thread
Composition	50% metallised polyester; 50% polyester
Harmonised Tariff Number	560500000
Count	dtex 277 x 3 / den 250 x 3
Make Up Available	1200 m Cone

### Fastness Rating – Scale 1 (worst) – 5 (best)

Fastness to washing at 95°C	DIN EN 20105 / M & S C4A	4-5
Fastness to water (damp for 4hrs at 37°C)	DIN EN ISO 105-E01/M & S C6	4-5
Fastness to rubbing dry (10 rubs on dry white Fabric)	DIN EN ISO 105-X12/M & S C8	4-5
Fastness to rubbing wet (10 rubs on wet white Fabric)	DIN EN ISO 105-X12/M & S C8	3-4
Fastness to dry cleaning	DIN EN ISO 105-D01	4-5
Fastness to bleaching with Hypochlorite	DIN EN ISO 105-N01/M & S C10A	4-5

### Fastness Rating – Scale 1 (worst) – 8 (best)

Fastness to light (100hrs xenon light)	DIN EN ISO 105-B02	6-7
Due to different dye stuffs not applicable to all colors.		

### Mechanical – Technological Values

Tensile Strength cN (force until thread breaks, in Centinewton)	DIN EN ISO 2062	approx. 3150
Elongation (% of stretch extension with weight tension until breaks)	DIN EN ISO 2062	approx. 18
Shrinkage (shrinkage at boiling water)	DIN 53866 T2	< 1 %

**Special Considerations:** When embroidering/sewing onto leather with FS No.12, please take into consideration that only certain colours of this article are resistant to the oxidation caused by tannic acid and aggressive chemicals. Please contact MADEIRA for more information.

### Recommendations for care



Color Card No.

59

Oeko-Tex



To improve this product Madeira reserves the right to alter the specifications or modify the appearance of products without notice. Information and technical data in this document are guidelines and no warranted characteristics. Small variations due to production process are possible.

dtex = decitex = weight in grams of 10,000m of yarn; den = denier = weight in grams of 9,000m of yarn  
 1 denier = 1,111 decitex; dtex x 2 = two-ply of yarn; den x 2 = two-ply of yarn  
 cN = Centinewton: 1 Centinewton ≈ 1,02 gram