

Technical Data Sheet

To DIN EN ISO, Marks & Spencer Standards

Febr. 2007

Article Name	SUPERTWIST No. 30
Article Description	Metallic Embroidery Thread
Composition	70% polyamide 30% metallis. polyester
Harmonised Tariff Number	560500000
Count	180 dtex 160 den ca. 55.560 m / kg
Make Up Available	1000 m spool 5000 m cone crystal-color: 1000 m spool





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

Fastness to washing at 60°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 Due to different dye stuffs a result of 3-4 only can be obtained for some colors.
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 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.
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Mechanical-Technological Values

Tensile Strength cN (force until thread breaks, in Centinewton) DIN EN ISO 2062	approx. 550
Elongation (% of stretch extension with weight tension until breaks) DIN EN ISO 2062	approx. 30
Recommendations for care	   
Color Card No.	59

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; 1 Centinewton = slightly more than 1 gram
dtex x 2 = two-ply of yarn; den x 2 = two-ply of yarn