Technical Data and Characteristics

Data \ Type	STROFT® *N*	STROFT® *SUPER*	STROFT® *FLUOR*	STROFT® *GTM*	STROFT® *ABR*	STROFT® *GTP* (braided)
Raw material Chem. group, type	Polyamide 6,6	Polyamide 6,10	Polyamide - Copolymer	Polyamide - Copolymer	Polyamide - Copolymer	Polyethylene UHMWPE
Raw material Brand/company name	Nylon, Perlon	Nylon, Perlon	Nylon, Perlon	Nylon, Perlon	Nylon, Perlon	Dyneema, Spectra
Raw material Manufacturer	DuPont, Hoechst, Bayer etc.	DuPont, Hoechst, Bayer etc.	DuPont, Hoechst, Bayer etc.	DuPont, Hoechst, Bayer etc.	DuPont, Hoechst, Bayer etc.	Toyobo, DSM, Honeywell
Colouring process	No colouring	Granulate penetration	Granulate penetration	Granulate penetration	Granulate penetration	Individual fiber structure dyed
Spinning process	Melt-Spinning	Melt-Spinning	Melt-Spinning	Melt-Spinning	Melt-Spinning	Gel-Spinning
Tuning	Diffusion bath Drawing ratio 1: 4 Surface treatment bath	Diffusion bath Drawing ratio 1: 5 Surface treatment bath Slip-abrasion tuning	Diffusion bath Drawing ratio 1: 6 Surface treatment bath Slip-abrasion tuning Tempering	Diffusion bath Drawing ratio 1: 6 Surface treatment bath Slip-abrasion tuning Tempering	Diffusion bath Drawing ratio 1: 6 Surface treatment bath Slip-abrasion tuning Pressure tempering	Diffusion bath Multiple drawing Surface tuning Tempering Special braiding
Line type	Monofilament	Monofilament	Monofilament	Monofilament	Monofilament	Polyfilament (braided)
Colour	Crystal white	Grey-green	Yellow-fluorescent	Blue-green transp. (minimum dying)	Light brown transpar. (minimum dying)	Light grey and luminescent green
Price class	Low	Medium	High	High	High	Very high
Applications	For all types of fishing rods and all waters	For all types of fishing rods and all waters	For special fishing rods that require a very visible line	For all types of fishing rods and all waters that require a high tensile strength	For all types of fishing rods and all waters that require extremely long-term performance and highest tensile strength	For the smoothest fishing for the largest fish and special types of fishing depending on little stretch and extremely high tensile strength
Tensile strength dry, without knots [1]	75 kg/mm^2	89 kg/mm^2	101 kg/mm^2	114 kg/mm^2	114 kg/mm^2	205 kg/mm^2 single fiber=350 kg/mm^2
Tensile strength wet, without knots [2]	67 kg/mm^2	80 kg/mm^2	93 kg/mm^2	105 kg/mm^2	110 kg/mm^2	205 kg/mm^2 single fiber=350 kg/mm^2
Tensile strength with knots[3] as a % of [1] [2]	87 %	92 %	95 %	96 %	96 %	62 % [4]
Permissible load bearing capacity deviation	± 9 %	± 9 %	± 9 %	± 9 %	± 9 %	± 9 %
Permissible diameter fluctuation	± 0.001 mm	± 0.001 mm	± 0.001 mm	± 0.001 mm	± 0.001 mm	---
Permissible nominal size deviation	+ 0.038 mm	+ 0.038 mm	+ 0.038 mm	+ 0.038 mm	+ 0.038 mm	---
Elasticity Strain at break	30 %	28 %	28 %	26 %	22 %	4 %
Specific weight	1.14 g/cm^3	1.14 g/cm^3	1.14 g/cm^3	1.14 g/cm^3	1.14 g/cm^3	0.97 g/cm^3
Light refraction	1.58	1.58	1.58	1.58	1.58	1.54 Monofilament
Water absorption [2]	10 %	8 %	6 %	6 %	4 %	0.002 %
Melting point	205°C	205°C	210°C	210°C	220°C	160°C
Cold resistance to	- 40°C	- 40°C	- 42°C	- 42°C	- 45°C	- 20°C
Salt water resistance 1=very good 6=bad	3	3	2	2	1	1
Light-UV resistance 1=very good 6=bad	4	3	2	2	1	1
Suppleness, limpness 1=very good 6=bad	2	2	1	2	3	1
Abrasion resistance 1=very good 6=bad	4	3	2	2	1	1
Flow-friction values	2	1	1	1	1	3

1) = Line diameter 0.25 mm, humidity 70%, ambient temperature 20° C
2) = Line diameter 0.25 mm, suspension in water 1 h, water temperature 20° C
3) = Loop knots, double, as a % of tensile strength without knots (dry and wet)
4) = Tensile strength can be considerably improved by splicing or by the use of "clevis type eyelets"

N.B. The **load bearing capacity values** for all lines and all diameters are contained in the price list.

Reinfeld, December 2006