

FIREFIL[®]

CONTINUOUS FILAMENT PARA-ARAMID

FIREFIL is a 100% filament para-aramid sewing thread. It provides superior protection against heat and flame up to 450 °C. It is an ideal sewing thread choice for the customers working in difficult and dangerous conditions. It has been specially designed to meet the heat & flame protection and outstanding strength needs of the automotive and thermal insulation industries.

BASIC USES:



Protective apparel



Safety shoes



Cut protective gloves



Bullet-proof vests



Hose binders



Ballistic body armour



Airbags










Heat insulation



Filtration



The main reasons to prefer **FIREFIL**

-  It has an extraordinary resistance against puncture and cut in protective clothing
-  High temperature and flame resistance up to 450°C
-  Very low elongation (3-4%)
-  Exceptional strength and durability
-  It has a worldwide known  certification, especially for the USA and Canada
-  Bonded version is also available

Technical Specifications						
Ticket No. (Nm)	Tex No.	Ply	Average Strength		Elongation Min-Max %	Needle Size Metric
			cN	Gram		
4	660	3	97,085	99,000	2 - 6	160-180
10	270	3	35,794	36,500	2 - 6	160-180
20	135	3	24,036	24,510	2 - 6	130-140
30	90	2	14,513	14,800	2 - 6	110-130
40	70	3	11,297	11,520	2 - 6	100-120
60	45	2	6,207	6,330	2 - 6	90-100

Fastness Features:

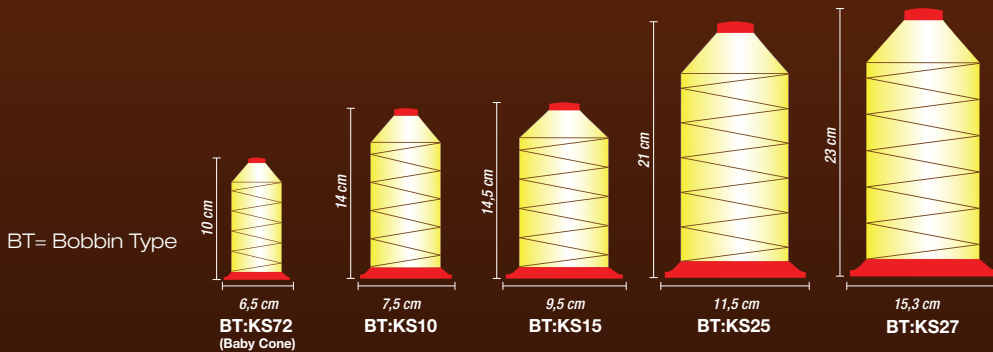
Wash fastness : ISO 105 C04 (DIN 54011) Grade 3
Rub fastness : ISO 105 X12 (DIN 54021) Grade 3

Thermal Features:

Decomposition temperature at approx 420°C
Does not melt or drip

Chemical Features:

Excellent resistance to oils and petro chemicals
Good abrasion resistance
Perfect chemical resistance



The conditions and practice for the use of sewing threads are quite variable. Therefore, it is important that the manufacturers have to do pre-tests to determine whether the product specifications are suitable for use in order to assure themselves. Ozen Iplik is not liable for unsuitable or improper use of the products. The above information is based on current average values and should be considered as guidance only.