

Secure Sewing Thread



**A key weapon in the fight
against forgery**



References

Our secure sewing threads are used in the passports of more than 30 countries, including:

- Argentina
- Azerbaijan
- Bolivia
- Brazil*
- Bulgaria
- Benin
- Cambodia
- Greece
- Hong-Kong*
- Ivory Coast
- Peru

* Multicolored threads

HID Global's secure threads are dyed and assembled using specific, unique processes to enable the combination of fluorescent and non-fluorescent colored plies. These plies can be combined to give customized secure threads for easy passport authentication.

Characteristics

- Core-dyed for 100% color impregnation
- 100% polyamide for optimum strength
- Two, three, or four-ply threads available
- Custom visible and UV color sets
- 10 -year guarantee on all products
- Includes IR anti-stokes fluorescent threads

For each ply, a specific colour can be applied among:

Visible

- White (raw) -E
- Blue -B
- Red - R
- Green - V
- Yellow - J
- Orange - O
- Pink - P
- Others upon trials

Fluorescent

- Dull / Blue / Green / Red
- Yellow/Orange/Pink
- Blue to Blue or Red
- Green to Blue, Green or Red
- Yellow to Blue, Green or Yellow
- Orange to Blue, Orange
- Pink to Pink or Red
- Purple to Pink
- Upon trials

For the best security choice, we strongly recommend threads containing one-ply (up to four-ply) in a visible white (raw) color and in a green or red color under UV light. Anti-stokes and fluorescent features can be combined, enhancing the security level, with a double control (UV and IR).

REF. EEE/RRR

REF. VJJ/ERR

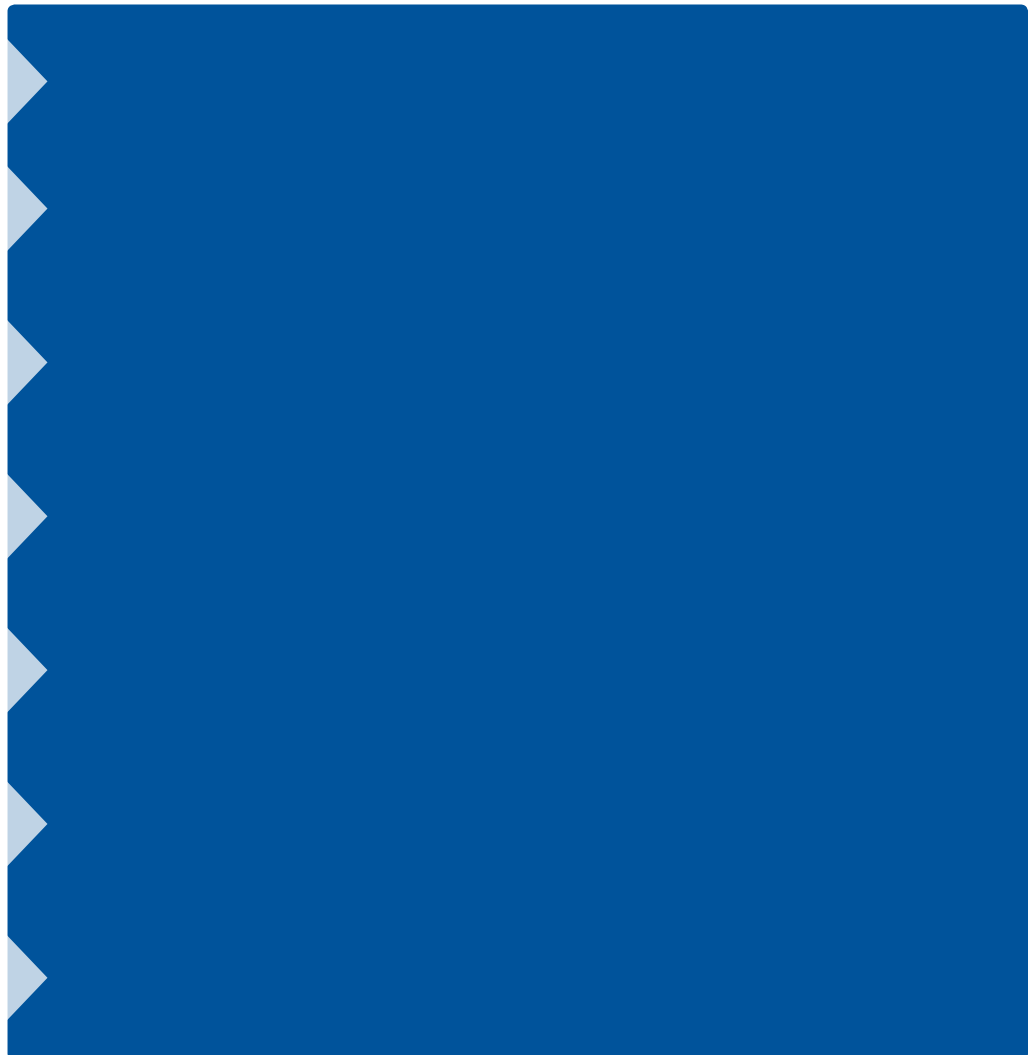
REF. EBR/VER

REF. VJR/VER

REF. EEE/BVR

REF. EEE/JJJ - AS

REF. EBVR/JBER - AS



THREAD COLOR COMBINATIONS

Colors Under UV

	No Fluorescence	Light Blue	Blue	Dark Blue	Green	Green/Yellow	Yellow	Orange	Pink	Red	Bi-Fluorescence	Anti-Stoke (IR)
Raw (White)	X	X	X	X	X		X	X	X	X	X	X
Light Blue	X	X								X		X
Dark Blue	X											X
Light Green	X	X			X					X		X
Dark Green	X											X
Light Yellow	X	X								X		X
Dark Yellow	X					X	X					X
Light Orange	X	X										X
Dark Orange	X											X
Red/Pink	X	X							X	X		X
Dark Red	X											X
Purple	X								X			X

TYPICAL PHYSICAL PROPERTIES

Ticket number (metric)	32/3	43/3	43/2
M/KG	9,800	13,000	19,660
Minimum Tensile Strength (g)	6,000	4,200	2,800
Fusion Point (°C)	260	260	260
Thickness (mm - +/- 10%)	0.56	0.48	0.37
Elongation (%)	20/30	25/35	23/33
Tex	102	70	51
Number of Plies (+/- 10%)	3	3	2

Reel Size	32/3	43/3	43/2
Outside Diameter (cm)	8	8	8
Length of the Core (cm)	14.5	14.5	14.5
Core Diameter (cm)	2.6	2.6	2.6
Weight (g)	~250	~250	~250
Length of Thread (m)	~2,450	~3,250	~4,900

Recommended Needles	32/3	43/3	43/2
Singer	19/21	14/16	12/14
Metric NR	120/130	90/100	80/90
Union Speciale	047/054	036/040	032/036

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