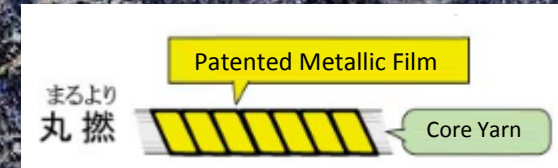




Suncoco Heavy Duty Metallic thread is specially designed to withstand denim washing and harsh post processing. This collection of metallic thread is made with a patented metallic film, which ensures the shine and color of the thread remains the same after washing. It is premium quality high tenacity polyester filament core which makes it suitable for both embroidery and sewing applications. This leading development is one of the many efforts taken by Suncoco to demonstrate its commitment to providing the industry with metallic thread for every washing and post processing requirement.



Product Information

Composition	100% Polyester
Yarn type	Metallic thread (round type)
Color in stock	28 colours (DTM available)

Product Range

Usage	Tex	Ticket	Denier	Ply
Embroidery/ sewing	27	140	243	1 (603)
Sewing	54	55.5	486	2 (604)
Sewing	81	37	729	3 (606)
Sewing	108	27	972	4 (608)
Sewing	135	22	1215	5 (204)
Sewing	162	18.5	1458	6 (T-22)

* Multi-ply/ Custom thickness available with MOQ



Heavy Duty Metallic thread is Oeko-Tex Standard 100 Class 1 certified suitable for use for infants.

Technical Recommendation

Punching Density	0.3 mm ~ 0.4 mm
Needle Size	DBx7ST # 10
Running Speed	600 tpm – 800 tpm

* Fastness properties please refer to page 4 for lab test



洗濯サンプル
WASHING SAMPLE



What does chemical washing do to metallic thread ?



Aluminum reacting with alkaline solution

Most metallic thread available on the market is made with silver or aluminum metallic film. Aluminum is the most popular and common option, due to its low price point. However, both types are not suitable for chemical washing.

Silver reacts with Sulphur, bleach and other oxidants causing it to corrode and tarnish rapidly. Aluminum breaks down when exposed to alkaline or acidic substances. This makes them unideal to be used on garments which needs to undergo post processing washing. It is particularly the case for denim wash, where acidic enzyme, bleach, and other alkaline or acidic agent is used.

How is Suncoco Heavy Duty Metallic thread different ?

Suncoco Heavy Duty metallic thread uses a special patented metallic film wrapped around a polyester core. This patented metallic film is designed to withstand alkaline or acidic washing. This makes sure the shine of the metallic film remains after chemical washing.

(ie. The metal doesn't corrode or break down when exposed to alkaline or acidic agents)

Please refer to diagrams on the right for pictorial comparison.

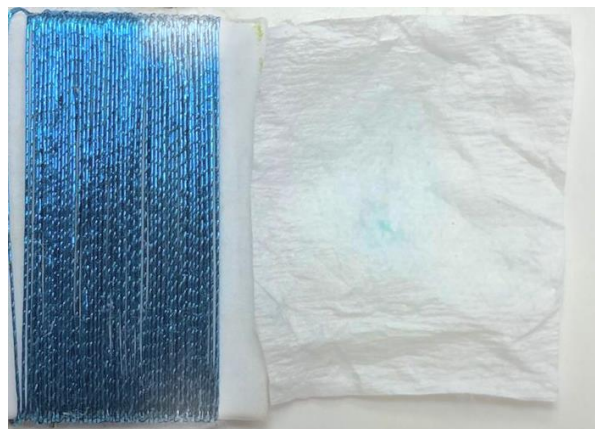


Regular metallic thread with silver plated metallic film, after dipping in household bleach for 5 minutes. The portion which is bleached has lost all the shine and color, only the core yarn is showing.



Suncoco Heavy Duty thread with patented metallic film, after dipping in household bleach for 5 minutes. The shine and color remains the same.





This is not a Suncoco product. This sample belongs to a catalog taken from an exhibition from a “low cost option” competitor. A piece of paper is used to rub against this color sample. This sample has an incredibly low color fastness against rubbing.

It is shown here to demonstrate how a metallic thread will look when the color layer is rubbed off exposing the raw metallic layer.



Suncoco Heavy Duty Metallic thread is Oeko-Tex Standard 100 Class 1 certified suitable for use for infants.

The most common metallic thread is colored using resin. It is also the most popular due to its comparatively low cost. It gets its color from laying a pigment layer on top of metallic film, which at its raw state is silver color. For example, a yellow pigment is lay on top of raw metallic film to make the color Gold. This is the most traditional coloring method for metallic thread.

However, this resin layer can be damaged under high temperature or during chemical wash. When damaged this color layer might rub off and expose the raw metallic film below, causing discoloration.

How is Suncoco Heavy Duty Metallic thread different ?

Suncoco Heavy Duty metallic thread uses a special patented metallic film that is dyed at high temperature using disperse dyeing method. After twisting, the yarn is dyed at 130° C making it highly color fast.

This property makes Heavy Duty Metallic thread highly versatile.

- ✓ High color fastness
- ✓ High temperature post processing
- ✓ Garment dye (natural fiber dyeing)
- ✓ Custom color with low MOQ



Suncoco Heavy Duty metallic thread is a dyed thread. Hence both the core yarn and metallic film are the same color.

Washing Lab test

This lab test demonstrates washing performance of Silver, Gold, and colored option of Suncoco Heavy Duty Metallic thread.

SL 6149 is the sample used of silver

SL 6152 is the sample used for gold

SL 6163 is the sample used for other colors.

Fastness Properties

	Testing Method	Rating		
		Silver	Gold	Color
Artificial light fastness	JIS L 0842	4	>4	>4
Washing	JIS L 0844	5	5	5
Rub fastness (dry)	JIS L 0849	5	4	4-5
Rub fastness (wet)	JIS L 0849	5	4-5	4-5
Dry cleaning	JIS L 0846	5	5	5
Hot heating	JIS L 0845	5	4-5	5
Dry heating	JIS L 0879	5	4-5	5

品質検査報告書

本報告書に記載の結果は供試材料に対するものであり、荷口(口)全体の品質を証明するものではありません。

試験項目	試験方法/生地No	1 SL6149 2 SL6152 3 SL6163 4 5 6 7 8								
		1	2	3	4	5	6	7	8	
耐光(級)	JIS L 0842 変	4	4以上	4以上						
洗濯(級)	JIS L 0844 変	5	5	5						
	A-2号汚	5	4	4-5						
洗濯(級)	JIS L 0844 変									
	(A-2号準用)汚									
汗(級)	JIS L 0848 変	+	+	+						
	(酸・アルカリ)汚	+	+	+						
摩擦(級)	JIS L 0849 乾	5	4	4-5						
	II形 濡	5	4-5	4-5						
水(級)	JIS L 0846 変									
	汚									
ドライクリーニング(級)	JIS L 0860 変	5	5	5						
	B-2法(石油系溶剤)汚	5	4-5	5						
色泣き(級)	大丸法	汚								
	塩素処理水(級)	JIS L 0884 A法 変								
熱湯(級)	JIS L 0845 変	5	4-5	5						
	汚	5	4-5	5						
乾熱処理(級)	JIS L 0879 B法 変	5	4-5	5						
	汚	5	3	4-5						
物理性能	ホルムアルデヒド厚生省令第34号による乳幼児(A-A0)									
	寸法変化率(%)		たて	よこ						
	バイル保持力	カケン法	繰	回						
	毛羽付着(級)	セロテープ法								
判定	試験項目	試験方法	生地No	たて	よこ	試験項目	試験方法	生地No	たて	よこ
	寸法変化率(%)									
	引張強さ(N)	JIS L 1096 A法(バグ/スリッパ法)				破裂強さ(kPa)	JIS L 1096 A法			
	引裂強さ(N)	JIS L 1096 D法				繊維鑑別	JIS L 1030			
	滑脱抵抗力(mm)	JIS L 1096 B法 荷重 N								
	スナッグ(級)	JIS L 1058 A法								
	ピリング(級)	JIS L 1076 A法 時間								
摩耗強さ(回)	JIS L 1096 B法(カーテンブレード法)									
生地見本		1 SL6149	2 SL6152	3 SL6163	4	5	6	7	8	

Light / Brown / Washing / Rubbing / Dry Cleaning / Hot Heating / Dry Heating

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発行	平成 24 年 5 月 29 日
発行	No. KT- 12-005205
納入先	会社名
	分類コード
	商品コード
納入者	会社名
	所在地
	担当者
品名	RTB
	品番 色数 3
所見	熱湯については、部付白布:綿・毛
	乾熱処理については、部付白布:ポリエステルで試験実施
判定	適用規格
	生地検査:合格(- 色) 不合格(- 色)
検査機関	部付白布:綿・絹
	カケン 一般財団法人 カケンテストセンター 京都検査所
処理	松村
	確認済書

寸法変化率結果の(+)は伸び、(-)は縮みを示す。

財団法人 日本化学繊維検査協会

HEAVY DUTY

ヘビーデューティー



Suncoco®

Denim Washing Results



It is an example of post processing done near the hip area. The fabric shows clear fading, while the pocket design using Suncoco Heavy Duty Metallic thread in the color gold shows even shine and color.



This is a demonstration of how Suncoco Heavy Duty Metallic thread withstands different levels of bleaching. The denim fabric shows various fading intensity while Suncoco Heavy Duty Metallic thread in brass color retains the same shade and shine.



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For denim washing and high temperature processing

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Denim Washing Results



Before Washing



✓ BLEACH WASH



✓ BLAST WASH
✓ ENZYME WASH

HEAVY DUTY

ヘビーデューティー

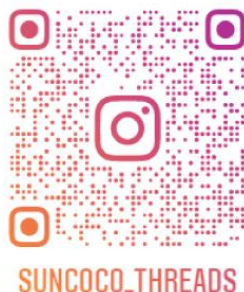


METALLIC THREAD EXPERT

Suncoco has been servicing the garment industry since 1983, our niche is metallic thread. Throughout history, metallic thread has been used as a symbol of luxury. It adds value to your design allowing for a much higher product markup. For that reason, Suncoco commits ourselves in providing premium quality metallic thread, the justify the definition of luxury.

Our understanding of materials help your garment achieve lasting beauty and shine.
Our commitment in purity of metals allow for consistency between production lots and product performance.
Our innovation allow designers to use metallic thread in all desired designs and application.

Let us be your go to supplier for your metallic thread needs.



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