



# Coats® FlamePro™ Splash

Coats FlamePro Splash is a metal molten splash protective fabric that is specially engineered to be lightweight, soft and flexible while maintaining durability for long lasting year.

This fabric ensures excellent protection against radian heat, flame, metal splash and other smelting hazards due to its thermal resistant and metal-shedding design. Flamepro Splash has good wash fastness and is durable during and after laundry which increases the life of the garment and therefore return on investment.

**COATS**  
FlamePro™  
Splash



MOLTEN METAL SPLASH  
PROTECTIVE FABRIC

## Why choose FlamePro™ Splash?

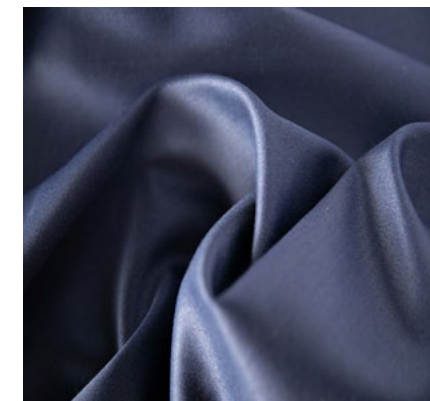
- Exceptional flame and heat resistance
- Specially created to protect against molten metal splash
- Does not adhere onto skin
- Does not break out
- More comfortable than any other comparable
- Low shrinkage and low charring when exposed to molten metal splash
- Soft and cool wearing properties
- Meets Coats restricted substance list

## Main Uses:

- Aluminium, iron and steel manufacturers
- Foundries

## Product Range

Product	Weight g/m <sup>2</sup>	Fabric Type	Width cm
W310	310 ±5%	Satin	160
W340	340 ±5%	Satin	160



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## Testing Data

Visual rating of fabric exposed to Molten Aluminium rating of outer (impacted) layer ASTM 955-15

Fabric Type	Backing	Charring	Shrinkage	Adherence	Break Out
FlamePro Splash	T-Shirt	3	1	1	1

Maximum calorimeter temperature rise during the First 30 second and time to second degree according to toll curve after impact with Molten Aluminum ASTM 955-15

Fabric Type	Test No.	Backing	Top Calorimeter (°C)	Bottom Calorimeter (°C)	Time to Second Degree Burn (sec)
FlamePro Splash	1	T-Shirt	17.5	18.9	No Burn
	2	T-Shirt	15.7	13.2	No Burn
	3	T-Shirt	17.8	18.1	No Burn

Note: The test results above are related to Flamepro Splash W310, please get in touch with your sales representative if you require testing data for Flamepro Splash W340.

## Testing Data

		W310	W340
Assessment of Resistance of Material to Molten Splash	EN ISO 9185:2007	D2 & E3	D3 & E3
Electrical Arc Exposure Test	ASTM F1959	8,5 cal/cm²	15 cal/cm²
Charge Decay	EN 1149-5:2018	PASS	n/a

Heat & Flame EN ISO 11612	Heat Resistance	ISO 17493:2016	PASS	PASS
	Limited Flame Spread	EN ISO 15025:2016	A1 & A2	A1 & A2
	Heat Transmission on Exposure to Flame	ISO 9151:2016	B1	B1
	Radiant Heat	ES ISO 6942:2002	C1	C1
	Contact Heat	EN ISO 12127-1:2015	F1	F1

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## Physical Tests Requirements

		W310	W340
Abrasion Resistance	EN ISO 12947-2:2016	min 50.000 revs	min 50.000 revs
Pilling Resistance	ISO 12945-2:2000	5000rev 4 2000rev 4	5000rev 3 2000rev 2-3
Dimensional Stability	ISO 3759:2011	+/-4.5%	+/-4.5%
Tensile Strength	ISO 13934-1:2013	warp: 1.100N weft: 700N	warp: 1.100N weft: 1.000N
Tear Strength	ISO 13937-1:2000	warp: 36N weft: 30N	warp: 36N weft: 52N
Repellency Test	ISO 4920:2012	5	5

## Colour Fastness Requirements

		W310	W340
Colour Fastness to light	ISO 105B (grade 5)	5	5
Colour Fastness to rubbing	ISO 105-x12:2016	dry: 4/5 wet: 4	dry: 4/5wet: 4
Colour fastness to washing	ISO 105-C06:2010	4/5	4/5
Colour fastness to perspiration (acid&alkaline)	EN ISO 105-E04:1996	4/5	4/5
Colour	L 16.870 a 1.150 b -5.135	dE < 1.5	dE < 1.5

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## Laundry Recommendations

### General Guidelines



Wash separately from non-flame-resistant garments since lint from these garments may affect flame resistance.



Do not use chlorine bleach. Chlorine bleach will not damage flame resistance but may reduce garment life span.



Garments that are heavily stained with oil or grease should be pretreated before washing.



Shrinkage of approximately 3% may occur after laundering. Size garments accordingly.



Tumble drying temperatures should not exceed 150°F / 65°C. Do not over dry.

### Industrial Wash



Wash at 140°F / 60°C with high-surfactant, low alkalinity detergent formulations in cold or warm water. Colorfastness may be impacted if washed at higher temperatures.



Wash bath pH values should not exceed 9 to 10.



Use appropriate load sizes. Recommendation is (60-70% of rated capacity) to minimise solid redeposition.



Tumble dry (maximum stack temperature of 175°F / 80°C).

### Domestic Wash



Wash using permanent press or cotton sturdy wash cycle with cold or warm water.



Use household detergent only. Do not use soap as it may leave deposits on the fabric that impacts the flame resistance.



Do not use fabric softeners.



Tumble dry at a low heat.

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## Expert Real World Support

The final cost of any product also includes hidden costs, fuelled by the methods and tools applied to it. Our experts know exactly how to reduce those costs, save time and increase productivity.



### One to One Visits

There's no need to come to us, our experts will travel to your site. In person, online or via the phone, our trained consultants deal with the kind of issues any busy factory may face, providing a solution for today and a blueprint for future efficiency.



### Training and Presentations

From product selection to solutions for common production issues, we take the learning gathered through years of hands on experience and present it in the form of high impact seminars, workshops and presentations.



### Innovation Hub

Collaborate directly with expert R&D technologists at our Innovation Hub to create pioneering and tailored solutions for products ranging from Performance Materials to Apparel and Footwear. Equipped with state-of-the-art technology, we quickly turn ideas into prototype designs ready for manufacturing.

To drive your hidden costs down, talk to Coats. From thread audits in pre-production to the latest technical bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit [www.coats.com](http://www.coats.com)

## OTHER PRODUCTS IN THE FLAME RESISTANT RANGE

To complement the FlamePro range, we also have a selection of specialist flame resistant sewing threads. Each of these products have additional benefits specific to the end use.

Product Name	Description
Firefly	Staple spun meta-aramid sewing thread that can resist flame temperatures up to 371° C, making it an excellent choice for protective garments.
Firefly Fil	Continuous filament 100% meta-aramid sewing thread used in protective garments that require flame or heat protection.
Protos	Para-aramid sewing thread that is stronger than steel and is specifically engineered to meet fire and safety standards with standing temperatures up to 450° C.

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Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure themselves that the product meets end customer requirements and is suitable for the intended end use. Coats® accepts no liability for unsuitable or improper use or application of products. Information provided is based on current averages and should be taken only as indicative. Coats® accepts no liability for the preciseness and correctness of the information provided. Product information sheets are updated from time to time, please be sure you are referring to the most recent publication. Coats® supports customers with advice on individual applications on request; if you have any questions or concerns, please contact us. Coats® is a registered trademark of J. & P. Coats, Limited. FlamePro™ is trademark of J. & P. Coats, Limited. © Copyright reserved 2025.