

Safety Shoes



About Coats

Coats has a long history of pioneering innovation and experience in the apparel and footwear and accessories industry and is a world leader in delivering quality products and technical services. We are pleased to introduce our comprehensive product offer for the safety shoes segment and to highlight the new highly functional and PFC free anti-wicking threads.

Safety Shoes

Safety shoes are designed to provide security and durability, to withstand a daily hostile environment and at the same time to offer comfort and hygiene to their wearers. Coats range of robust sewing threads and zips ensure such footwear is durable, meets high quality standards and is held together with products that provide peace of mind.







Different safety shoe requirements can be met with our range of quality water repellent, anti-static, flame retardant, anti-microbial, anti-fungal, acid protection, oil and fuel resistance sewing threads and zips; and all these complimented with convenient sourcing, reliable service and technical support, globally.

New PFC Free & Anti-wicking Threads

Previously, for water resistant seams most anti-wicking threads contained some PFCs substances such as perfluorinated carbon (PFC), perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). These can have adverse effects to health and the environment and are not biodegradable.

Coats new 100 % PFC free anti-wicking threads have the same functionality and meet the highest industry standards for water repellancy. They come with the versatility and superior sewing performance expected from Coats.

Safety Shoe Product Range

Product	Description	Characteristics
	Bonded continuous filament nylon 6.6	Coats Nylbond is a bonded nylon thread made from pre-stabilised continuous filament nylon 6.6. Coats Nylbond cuts cleanly at thread trimming with no ply separation and provides superior abrasion resistance in the sewn product. The proprietary bonding technology yields a tough uniform bond with exceptional peel strength in a soft, supple construction.
	Bonded single ply multi-filament nylon	Coats Nymo is a high-speed, multi-directional sewing creates thread rotation, causing traditional plied threads to untwist and fray. Coats Nymo unique, single-ply construction eliminates ply untwisting problems. A single ply of multi-filament nylon is lightly bonded at its point of contact, just enough to form a cohesive element without stiffening the product.
	Continuous filament polyester	Coats Gral is a lubricated polyester thread made from pre-stabilised high tenacity continuous filament polyester. Coats Gral is an excellent sewing thread for all types of leather and offers good abrasion resistance.
	Flame resistant meta aramid	Coats Pyrostar is a 100% stretch broken, long staple spun meta-aramid sewing thread offering outstanding, permanent heat and flame protection up to 370°C. It is uniquely engineered to provide exceptional flame, heat and electric arc resistance.
	Flame resistant meta aramid	Coats Firefly is a 100% staple spun meta-aramid sewing thread that offers outstanding resistance against heat up to flame temperatures of 371°C. It is uniquely engineered to provide exceptional flame, heat and electric arc resistance.
	Flame resistant meta aramid	Coats Protos Plus is a 100% long staple spun para-aramid sewing thread specifically developed to meet the exacting fire retardant and retained strength standards in ballistic body armour, automotive and insulation industries. Ideal for fire fighter wear, safety shoes, gloves and bullet proof vests. High temperature limit up to 400°C.



Special Thread Finishes

A variety of special finishes are now available in the safety shoe product range:



Anti-wick

New! Anti-wick (AW) PFC Free – The water repellent finish inhibits the capillary effect, thereby ensuring that no water is taken up by the thread, helping to provide a water resistant seam.



Anti-static

Anti-static (AST) – Combines the thread with a special conductive material. Designed for use where electrostatic charge is a problem (e.g. server rooms or places where flammable materials are stored or used).



Protect Anti-microbial

Anti-microbial / anti-fungal (Protect) - The thread is treated with an innovative process to give anti-microbial and anti-fungal properties. The process creates a "zone of inhibition" that prevents the growth of bacteria and pathogens around sewn seams, where microbes like to harbour, leaving seam crevices clean and fresh.












Coats Opti Zips for Safety Shoes



Coats Opti metal, plastic moulded and spiral zips for safety shoes. Our wide range is backed by our unrivalled zip manufacturing technology, designed to give Coats customers a product they can trust every time.

Coats Opti Zips	Characteristics
Opti S Standard	Opti S is the strongest slender spiral zip from Coats. It combines "S" technology with high quality components to produce a durable and good looking zip solution that simply works.
Opti M Firefly	Metal zips with Meta-aramid tape; heat resistant up to 371°C.
Opti FlameMaster	Metal or spiral zips using textile tapes with special molecular modified polyester, rendering permanent flame retardant properties.
Opti FlameGuard	Chemically treated tapes with Flame Retardant (FR) chemicals - can be applied to all products.
Opti HydroS	Chemically treated tapes with water repellent finish (AW) - can be applied to all products.
Opti Signal	Spiral or Metal zips with retro-reflective bands.

Technical Data

Thread	Description	Special finish	Tex.	Ticket	Article	Length (m)	Strength (cN)	Elongation %	Needle Size (metric)
	Bonded continuous filament nylon 6.6	-	135	20	S654020	1,500	9,420	17-32	120 - 160
			105	30	S660030 / S654030	2,500 / 1,500	6,380	16-34	110 - 130
			70	40	S663040 / S654040	3,000 / 1,500	4,710	16-31	90 - 110
	Bonded single ply multi-filament nylon	-	105	31	S415031 / S409031	2,500 / 1,500	6,190	15-35	90 - 110
			70	41	S421041 / S409041	2,500 / 1,500	4,730	15-35	110 - 130
	Continuous filament polyester	-	135	20	1322020 / 1302020	3,000 / 2,000	8,360	17-25	120 - 160
			80	30	1322030 / 1302030	3,000 / 2,000	5,200	16-23	110 - 130
			60	40	1322040	3,000	4,230	16-23	90 - 110
	Flame resistant meta aramid	-	135	20	SAD3020	1,000	5,800	17-27	120-160
			70	40	SAD5040	2,500	2,750	17-27	90 - 110
	Flame resistant meta aramid	-	70	40	9600040	2,500	2,300	17-27	90 - 110
	Flame resistant para aramid	-	80	35	SAE1035	3,000	10,600	3 - 5	110-130
			60	50	SAE1050	3,000	8,000	3-5	100 -110
	Bonded continuous filament nylon 6.6	Anti-wick	135	20	AWLH020	1,500	9,420	17-32	120-160
			105	30	AWLH030	1,500	6,380	16-34	110-130
			70	40	AWLH040	1,500	4,710	16-31	90-110
	Bonded single ply multi-filament nylon	Anti-wick	105	31	S4AE031	2,500	6,660	15-35	110-130
			70	41	CB34041	3,000	5,290	15-35	90-110
	Continuous filament polyester	Anti-wick	135	20	1402020	2,000	8,360	17-25	120-160
			80	30	1402030	2,000	5,200	16-23	110-130
			60	40	1422040	3,000	4,230	16-23	90-110
	Continuous filament polyester	Anti-static	135	20	S2A2020	830gr	8,360	17-25	120-160
			80	30	3450030	600gr	5,200	16-23	110-130
	Continuous filament polyester	Protect	135	20	1A02020	2,000	8,360	17-25	120-160
			80	30	1A02030	2,000	5,200	16-23	110-130
			60	40	1A22040	3,000	4,230	16-23	90-110