

FR DURABILITY.

Don't settle for washouts. Spot tests show some fabric brands can burn after they've been **washed only a few times**. The ISO 11612 standard only requires FR protection to last five trips to the laundry, and also only requiring for flame test on the surface of the garment.

We'll show you tests results of the much tougher fabric edge burn test on material **washed and tumble dried 200 times** that are as good as the first test! That's the durability you get in every single meter of Daletec fabric. In addition, Daletec fabric range covers fabrics that are certified for NFPA 2112 norms as well.

EXCEPTIONAL ARC BLOCK.

Daletec arc protection surpasses IEC 61482-1-2, and more importantly Daletec shows stronger and more reliable arc protection test results compared to the main competitors. Our main products for heavy- and light weight garments show ATPVs of respectively **11,0 cal** (350gsm fabric), **23,0 cal** (450gsm fabric) and **9,8 cal** (250gsm fabric) and **12,0 cal** (290 GSM fabric).

SKIN-SAFE AND COMFORTABLE.

Some FR materials shouldn't be worn directly against skin. Many can be uncomfortable, rough or stiff.

Daletec fabric is always safe – no skin reactions or allergies, and meeting **Oeko-Tex standard 100 class II**, meaning a formaldehyde level lower than 75 ppm.

And we invented the "Dale comfort" softness standard that others struggle to meet.

WASH STABILITY.

Guaranteed low shrinkage – you can pick your size and **it will stay your size**. If you choose brilliant, deep colors, they'll stay vibrant after repeated laundering.

And we're now about to launch industrial wash (75°C) for most articles.

FEATURING BENEFITS.

Daletec has everything you need for the most demanding end users. Hi-Vis yellow-plus-contrast-colors, certified to ISO 20471, Optional chemical splash protection certified to ISO 13034, Antistatic to qualify for 1149-3 and 1149-1 and laminations to qualify for EN 343.

FOUNDED IN NORWAY IN
1879, PROCESSING FR FABRICS
SINCE 1966

**A GLOBAL LEADER IN
FR FABRICS WITH
CUSTOMERS IN ALL
CONTINENTS**

100% FOCUS ON FR WORK
WEAR FABRICS FOR DIFFERENT
INDUSTRIES

THE QUALITY BENCHMARK
IN THE OIL & GAS INDUSTRY



EN 11612



EN 11611



IEC 61482



EN ISO 13034



EN 343



EN 1149



CONFIDENCE
IN TEXTILES
Tested for harmful substances
according to Oeko-Tex Standard 100
00000000



EN ISO 20471



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**YOUR
STRONGEST
SHIELD**

www.daletec.com

RIGSHIELD

Product Name	Article Code	Weight GSM/Oz	Weave	Material Composition	Oeko-Tex	Wash	EN 1149	ISO 20471	EN ISO 11612	EN ISO 11611	EN 61482-1-2	EN 13034	NFPA 2112	ASTM F1959
Liner	101731	170/5.00	1/1 Plain	100% Cotton	Class II			0090	ISO 14116 & ISO 11612-6.2 heat					
LightGuard	502231	220/6.50	2/1 Twill	100% Cotton	Class II			2080 4449 5655	A1A2B1C1		Class 1			ATPV 7.6
LightSpark	502251	220/6.50	2/1 Twill	99/1% Co/AS	Class II		Part 3	2080 4449 5655	A1A2B1C1		Class 1			
LightSplash	502253	220/6.50	2/1 Twill	99/1% Co/AS	Class II		Part 3	2080 4449 5655	A1A2B1C1		Class 1	Class 3		
TropicGuard	502531	250/7.35	2/1 Twill	100% Cotton	Class II				A1A2B1C1	Class 1	Class 1			ATPV 9.8
TropicSpark	502551	250/7.35	2/1 Twill	99/1% Co/AS	Class II		Part 3		A1A2B1C1	Class 1	Class 1			
TropicSplash	502553	250/7.35	2/1 Twill	99/1% Co/AS	Class II		Part 3		A1A2B1C1	Class 1	Class 1	Class 3		
ClassicGuard	503531	350/10.30	1/4 Satin	100% Cotton	Class II			2080 5655	A1A2B1C1E2F1	Class 1	Class 1			ATPV 11
ClassicSpark	503551-WE	350/10.30	4/1 Satin	99/1% Co/AS	Class II		Part 3	2080 5655	A1A2B1C1E2F1	Class 1	Class 1			ATPV 11.0
ClassicSplash	503553	350/10.30	4/1 Satin	99/1% Co/AS	Class II		Part 3	2080 5655	A1A2B1C1E2F1	Class 1	Class 1	Class 3		ATPV 11.0
LightGear	502236	230/6.80	2/1 Twill	100% Cotton	Class II				A1A2B1C1		Class 1			ATPV 7.6
HeatBeater	802236	220/6.50	2/1 Twill	100% Cotton	Class II				A1A2B1C1		Class 1		NFPA 2112	ATPV 7.6
ShockBeater	802256	220/6.50	2/1 Twill	99/1% Co/AS	Class II		Part 3		A1A2B1C1		Class 1		NFPA 2112	ATPV 7.6
GlobalArc	802536	250/7.35	2/1 Twill	100% Cotton	Class II				A1A2B1C1	Class 1	Class 1		NFPA 2112	ATPV 9.8
GlobalSpark	802556	250/7.35	2/1 Twill	99/1% Co/AS	Class II		Part 3		A1A2B1C1	Class 1	Class 1		NFPA 2112	ATPV 9.8
PermaChief	803536	350/10.30	1/4 Satin	100% Cotton	Class II								NFPA 2112	ATPV 15.0
SparkChief	803556	350/10.30	1/4 Satin	99/1% Co/AS	Class II		Part 3						NFPA 2112	ATPV 15.0
Robust	★522536	250/7.35	3/1 Twill	88/12% Cotton/Nylon	Class II				TBA	Class 1	Class 1			
Sparky	★522556	250/7.35	3/1 Twill	88/11/1% Cotton/Nylon/AS Weft	Class II		Part 3		TBA	Class 1	Class 1			
Slugger	★523336	330/9.75	3/1 Twill	88/12% Cotton/Nylon	Class II				TBA	Class 1	Class 1			
Electra	★523356	330/9.75	3/1 Twill	88/11/1% Cotton/Nylon/AS Weft	Class II		Part 3		TBA	Class 1	Class 1			
GlobalLiner	★802036	200/6.00	2/1 Twill	100% Cotton	Class II								NFPA 2112	
Ranger	★822336	235/7.00	3/1 Twill	88/12% Cotton/Nylon	Class II								NFPA 2112	
Archer	★822356	235/7.00	3/1 Twill	88/11/1% Cotton/Nylon/AS Weft	Class II		Part 3						NFPA 2112	
Warrior	★823036	305/9.00	3/1 Twill	88/12% Cotton/Nylon	Class II								NFPA 2112	
Gunner	★823056	305/9.00	3/1 Twill	88/11/1% Cotton/Nylon/AS Weft	Class II		Part 3						NFPA 2112	
Shirting	112241	220/6.50	2/1 Twill	100% Cotton	Class II				A2B1C1		Class 1			ATPV 7.6
LightRig	112531	250/7.35	2/1 Twill	100% Cotton	Class II				A1A2B1C1	Class 1	Class 1			ATPV 9.8
RigChief Universal	103383	320/9.45	1/4 Satin	98/2% Co/AS (steel)	Class II		Part 1 & Part 3		A2B1C1E1F1	Class 1	Class 1			
RigChief Grid	603581	350/10.30	1/4 Satin	99/1% Co/AS	Class II		Part 3	2080 5655	A1B1C1E2F1	Class 1	Class 1			
RigChief Grid FC	603583	350/10.30	1/4 Satin	99/1% Co/AS	Class II		Part 3	2080 5655	A1B1C1E2F1	Class 1	Class 1			
BluFlame Shirt	★802436	245/7.20	2/1 Twill-Z	100% Cotton	Class II				TBA	Class 1			NFPA 2112	
BluFlame Jeans	★803836	385/11.40	3/1 Twill-Z	100% Cotton	Class II				TBA	Class 1				
Modamid Air	862151	210/6.20	2/2 Twill	Modacrylic/Cotton/Aramid/AS Wp Stripe	Class II		Part 3		A1A2B1C1		Class 1		NFPA2112	
Modacel Comfort	★872251	220/6.50	2/1 Twill-S	Modacrylic/Tencel/Aramid/AS Intimate	Class II		Part 3						NFPA2112	>8
Modamid Polar	★863053	300/8.85	2/1 Twill-Z	Co/Modacrylic/AS Intimate	Class II		Part 3	2080 Grey Navy	TBA	Class 1	Class 1	Class 3		
Dalamid 5	★881881	180/5.30	1/1 Plain	98% aramid/2% AS			Part 3							NFPA 2112

OIL & GAS INDUSTRY
RIGSHIELD

RigShield fabrics offer the best protection from heat and flame, along with the best comfort. Most fabrics are made using the best cotton fibers for strength and durability, and with Daletec's unique processing. In addition Rigshield range covers inherently flame retardant fabrics that have FR properties at fiber level. Combination of optimum blends to achieve long lasting FR properties along with strength and durability helps Daletec products to stand out from others.

RigShield fabrics have FR properties that last longer than the life of garment, and are certified according to Oeko-Tex 100 class 2 which makes them skin-friendly.

Also, available in high-vis colors, in cold-flexible and breathable waterproof designs, and with a range of additional properties.

FOUNDRY & WELDING
METALSHIELD

MetalShield fabrics have our unique outer layer with coating that repels molten metal, blocks metal sparks, and protect the fabric from igniting.

Available in aluminum and smelter grade, or in lighter fabrication and welding grade,

MetalShield fabrics keep the heat out while giving you cool, lightweight comfort for continuous wear.

MetalShield fabrics have FR properties that last longer than the garment, and are Certified Öko-Tex 100 class 2 skin-friendly.

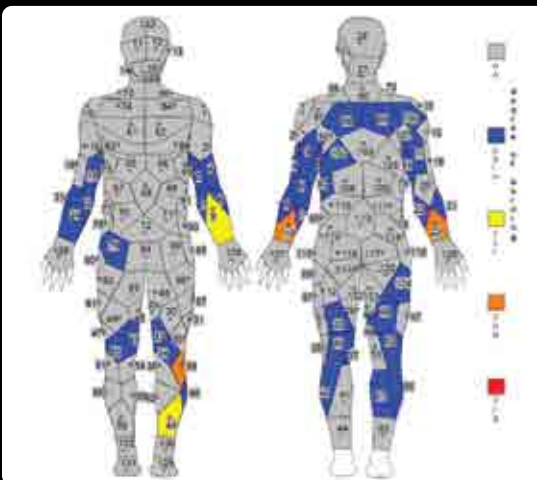
METALSHIELD

SPARKSHIELD

Product Name	Article Code	Weight GSM/Oz	Weave	Material composition	Oeko-Tex	Wash	EN 1149	ISO 20471	EN ISO 11612	EN ISO 11611	EN 61482-1-2	EN 343	EN 13034	ASTM F1959
Uniguard	103131	300/8.85	4/1 Satin	100% Cotton	Class II				A1A2B1C1	Class 1	Class 1			
Unispark	★103151	300/8.85	4/1 Satin	99/1% Co/AS	Class II		Part 3		TBA	Class 1	Class 1			
RigChief	103531	350/10.30	1/4 Satin	100% Cotton	Class II			2080 5655	AB1C1E3F1	Class 1	Class 1			ATPV 15
WelderSafe	104231	450/13.30	8-end Satin	100% Cotton	Class II				A1A2B2C1E3F1	Class 2	Class 1			ATPV 23.0
WelderGuard	504531	450/13.30	1/4 Satin	100% Cotton	Class II				A1A2B1C1E3F1	Class 2	Class 1			
Specialist	543886	380/11.20	2/2 Twill	65/34/1% Co/Pes/AS	Class III		Part 3	3920	A1A2B1C1E2F1	Class 1	Class 1			
Shirting Grid	612489	230/6.80	2/1 Twill	98/2% Co/AS	Class II		Part 3		A2B1C1		Class 1/2*			
IronLight	112574	270/7.95	2/1 Twill	100% Co + Metal Splash Coating	Class II				A2B1C1E2	Class 1				
IronGuard	103574	360/10.60	1/4 Satin	100% Co + Metal Splash Coating	Class II				A1A2B1C1E3	Class 2				
AluGuard	103575	370/10.90	1/4 Satin	100% Co + Alu Splash Coating	Class II				A1A2B1C1D3E2	Class 1				
El-Safe	142831	290/8.55	4/1 Satin	75/25% Co/Pes	Class II			2080 5781 3928	A1B1C1E1	Class 1	Class 1			ATPV 12.0
El-Safe Antistatic	642881	290/8.55	4/1 Satin	74/25/1% Co/Pes/AS	Class II		Part 3	2080 5781 3928	A1B1C1E2F1	Class 1	Class 1			ATPV 12.0
Hi-Class Grid	643581	350/10.30	4/1 Satin	74/24/2% Co/Pes/AS	Class II		Part 3		A1B1C1E2F1	Class 1	Class 1/2*			ATPV 14.1
Hi-Class Grid FC	643583	350/10.30	4/1 Satin	74/24/2% Co/Pes/AS	Class II		Part 3		A1B1C1E2F1	Class 1	Class 1/2*	Class 3		ATPV 14.1
BrightFire	143036HV	350/10.30	4/1 Satin	50/50% Co/Pes	Class II			3490	A1B1C1E3	Class 1	Class 1			
BrightFire Grid	643186HV	350/10.30	4/1 Satin	49/49/2% Co/Pes/AS	Class II		Part 3	3490	AB1C1E2F1	Class 1	Class 1			
StormFire	122291	300/8.85	2/1 Twill	88/12% Co/Pa HT				2080 5473	A1B2C1E3	Class 1	Class 1	Class 3		
ThunderShell	122292	300/8.85	2/1 Twill	88/12% Co/Pa Prelaminate				2080 5473	A1B2C1E3	Class 1	Class 1	Class 3		
StormSpark	622291	300/8.85	2/1 Twill	87/11/2% Co/Pa/AS HT			Part 3	2080 5473	A1B2C1E3	Class 1	Class 1	Class 3		
ThunderSpark	622292	300/8.85	2/1 Twill	87/11/2% Co/Pa/AS Prelaminate			Part 3	2080 5473	A1B2C1E3	Class 1	Class 1	Class 3		
ThermalQuilt	102738	270/7.95	1/1 Plain	100% Co liner 100gsm FR wadding	Class II			0090	ISO 14116 & ISO 11612-6.2 heat					
DoubleQuilt	104439	440/13.00	1/1 Plain	2*100% Co liner+ 100gsm FR wadding	Class II									

COLOR RANGE

3446 4348 0090 0003 5473 5655 5547 5660 4218 2418 2080 3490 7164 3547 4449
5554 9737 0076 4477 5636 5420 2430 1464 1655 3920 4043 0000 0601 0957 0080 ★ These articles are recent developments are under certification process



Pain Injury Area (%)	1 st Degree Burn Injury (%)	2 nd Degree Burn Injury (%)	3 rd Degree Burn Injury (%)	Predicted Total Area of Burn (2 nd and 3 rd Degree)
26.5	1.8	2.7	0	2.7

SAMPLE BEFORE BURNT TEST

SAMPLE AFTER BURNT TEST

Pictures and results from ASTM F1930: Prediction of burn injury using an instrumented manikin, article tested is 803536* for the burn test images.