



Gütermann K+L

**An expert thread in 100 % m-Aramid
Articel NOMEX®* and CONEX®****



These special threads made of NOMEX®* and CONEX®** are available in continuous and spun NOMEX®* to cover a variety of uses. Protective clothing for firefighters, racing drivers and foundry workers, uniforms for police officers, security patrols and the military must be sewn with m-Aramid to ensure that seams are secure.

* = DuPont™ NOMEX® ** = CONEX® = registered trademark of Messrs. Teijin

www.guetermann.com

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Technical properties 100 % m-Aramid Construction Count Breaking strength Breaking extension Thermal shrinkage	NOMEX®*		L-NOMEX®* - Filament			CONEX®**	
	Nm 40/3	Nm 70/3	Nm 20/3	Nm 40/3	Nm 40/2	Nm 40/3	Nm 70/3
	long staple spun		continuous			short staple spun	
	dtex 750(3)	dtex 400(3)	dtex 1.500(3)	dtex 750(3)	dtex 500(2)	dtex 750(3)	dtex 400(3)
	No./Tkt. 40	No./Tkt. 70	No./Tkt. 20	No./Tkt. 40	No./Tkt. 60	No./Tkt. 40	No./Tkt. 70
	tex 75	tex 40	tex 150	tex 75	tex 50	tex 75	tex 40
	> 2.870 cN	> 1.520 cN	> 5.920 cN	> 2.950 cN	> 2.030 cN	> 2.000 cN	> 1.000 cN
	$\bar{x}$ = 23 %	$\bar{x}$ = 21 %	$\bar{x}$ = 36 %	$\bar{x}$ = 34 %	$\bar{x}$ = 34 %	$\bar{x}$ = 22 %	$\bar{x}$ = 21 %
	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %
m-Aramid is degraded at a temperature of 380 °C							
Construction	A thread in 100 % m-Aramid, produced from the fibre NOMEX®*		100 % m-Aramid, produced from the fibre L-NOMEX®*		100 % m-Aramid, produced from the fibre CONEX®**		
	Gütermann K in 100 % m-Aramid is a long staple spun sewing thread that is available in No. 40 and No.70. The benefits of the long staple spinning technique are uniformity and high breaking strength. Another special feature is the thread's sheen which is superior to short staple spun thread.		Gütermann L, 100 % m-Aramid, is a continuous filament thread, available in counts No. 20, No. 40 and No. 60. Gütermann L is ideal for technical textiles due to its constant strength and its high breaking extension.		Gütermann K/AR in 100 % m-Aramid is a short staple spun sewing thread, also available in No. 40 and No.70. Due to the short staple spinning technique this thread exhibits less of a sheen. Its sewing performance is good.		
Target segments							
Protective workwear	Protective welding suits, overalls for pilots and racing drivers, off-shore clothing, firefighters, police and the military, shatterproof protective vests						
Filtration industry	Dry and wet filters in high temperatures						
Automotive industry	Insulation materials for the interior of engines, airbags						
Aviation industry	For sewing seats, panels, insulation						
Energy saving	Lagging to insulate pipes and valves						
Other areas of use	Fire extinguishing blankets, ironing board covers, first-aid tents, hot air balloons, tyre casing material, inserts for reinforcing conveyor belts, V-belts.						
Shade range	Shade card Gütermann K+L.						
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