

Robust and sustainable: cellulose filament yarn from Viscord®

Viscord® by Glanzstoff is a natural viscose filament yarn brand. While characterized by a soft hand and liquid drape, Viscord® displays exceptional durability and no-melt/no-drip properties. Accordingly, it is equally suited for high-end fashion and garments for firefighters or military applications.

Viscord® filament yarn is absolutely eco-friendly: they are produced from sustainable wood pulp. The raw material only requires suitable soil and an environment favorable for growth. For Viscord®, only trees from certified and controlled plantations are used, no pesticides are utilized.

In contrast to synthetic materials such as nylon or polyester, cellulose-based Viscord® is biodegradable and compostable. It will not add to the marine litter problem or otherwise end up in the food chain. 1 kilogram of silk kills 6,600 silkworms. In the production of Viscord® there is no such issue.

Furthermore, Viscord® easily becomes part of the circular economy: at the end of its lifetime, it can be dissolved to glucose. This will bring back energy to the production process in the form of bioethanol.



Indorama Mobility Group

Part of Thailand-based Indorama Ventures, the Indorama Mobility Group is the world's largest integrated company in the field of specialized fibers and textiles. Our high-performance filaments not only make major contributions to road safety, but are also indispensable in a number of other fields such as healthcare, transport, and construction. With 5,000+ employees in 16 manufacturing facilities and four R&D centers in nine countries, we generate 1bn USD in revenue.



About Glanzstoff

Glanzstoff is a major manufacturer of technical yarns, cords, and fabrics for the rubber and composite industries, leading in the production and processing of high-tenacity viscose and polyester filament yarns for technical applications. The Glanzstoff group has production sites in the Czech Republic, Italy, France, China, Mexico, and Luxembourg. Glanzstoff is part of the newly formed Indorama Mobility Group.



Don't hesitate to get in touch

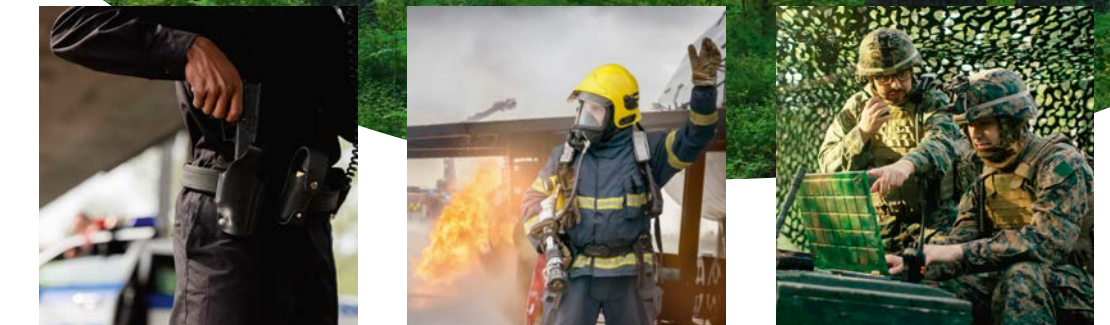
If you have special material requirements for any given application, we will gladly explore the applicability of our products together with you. Our technical team is ready to assist you:

Glanzstoff
Technopark 1. Object C.
3430 Tulln an der Donau
Austria
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Viscord® | **FR**
FLAME RETARDANT
Viscord® HT

Heavy-duty yarns for fine lightweight fabrics





Viscord® | FR

FLAME RETARDANT

- High tenacity: 26cN/tex
- LOI: 26%—no melt, no drip
- No thermoplastic
- No pilling—excellent abrasion resistance
- Unique wearing comfort—cool and silky touch
- Soft hand—liquid drape
- Good wash durability
- Biodegradable
- Oeko-Tex® 100 class 1

— “Flame retardants: when the mission gets hot”

Firefighters and soldiers* need flame-resistant garments that neither melt nor drip under heat and flame exposure. Unlike thermoplastics, cellulose-based Viscord® FR has an excellent LOI of 26%. With its cool touch and low coefficient of friction, it is perfect for hood liners, stretch fabrics, soft-shell fabrics, base layers, and shirting.

Viscord® FR does not contain halogens or otherwise toxic flame retardants. Its fire-resistant properties are not reduced by washing, dry cleaning, or by abrasion. The yarn is available in two varieties: in 150 dtex, it is a perfect material for textile applications. A courser yarn count of 2440 dtex is mainly used for stretch-breaking to produce long staple fibers.

* Viscose is approved by the US military and is Berry-compliant.

Achievable certifications

(depending on fabric construction)

- EN ISO 14116
- EN ISO 11611 Class 2
- EN ISO 11612 Class A1, B1, C1, D3, E3
- EN 13034 Class A1
- EN 61482-1-2 Class 2
- EN 1149 Class 3 (in combination with carbon fiber)
- EN 469
- FIA 8856 -2000

Viscord® FR technical data

Linear density (nominal) dtex	No. of filaments	Linear density (real) dtex	Tenacity cond. [cN/tex]	Tenacity wet [cN/tex]	Elongation cond. %	Elongation wet %	Hot water shrinkage %	LOI
150	76	153	26	12	9	24	14	26
2440	1320	2450	24	12	7	18	13	26

Viscord® HT

— High tenacity for highest demands

- High tenacity: 36cN/tex
- Outstanding abrasion resistance, no pilling
- Cool and silky touch, liquid drape
- Excellent washability
- Biodegradable
- Oeko-Tex® 100 class 1

For all its robust tenacity, Viscord® HT offers excellent wearing comfort. Its brilliant visual appearance and silk-like touch make it a highly popular material in haute couture. At the same time, it is suitable for heavy-duty base layer garments due to its natural moisture managing properties, creating natural comfort. Other applications include sportswear, car interiors, and sewing threads.

Fabrics produced from Viscord® HT are warm in the winter and cool in the summer. Low electrostatics add to its wearing comfort. In addition, Viscord® HT has excellent durability: On Martindale tests it withstood over 100.000 turns and it has been laundered up to 100 cycles, with no evidence of pilling or degradation.

Viscord® HT technical data

Linear density (nominal) dtex	No. of filaments	Linear density (real) dtex	Tenacity cond. [cN/tex]	Tenacity wet [cN/tex]	Elongation cond. %	Elongation wet %	Hot water shrinkage %
150	76	153	36	19	10	22	14

