



**ITCOGEL**™

*Protecting the heart of your cables...*

FILLING COMPOUNDS FOR FIBRE OPTIC CABLES  
FÜLLMASSEN FÜR OPTISCHE KABEL



## WIDENING HORIZONS & PURSUING EXCELLENCE

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ITCO Industries Limited, a part of the ITCO group having diverse business activities, was incorporated in 1995 to exclusively develop and manufacture thixotropic gels for optic fibre cables. Situated in the industrial town of Hosur (36 Km from Bangalore in India) with world class manufacturing and R & D facilities, ITCO pioneered the quality manufacture of thixotropic gels (thixotropic cable filling & flooding compounds) in India and remains a very key player in the market.

Our quest for excellence and constant improvement in our products and processes enabled us to get certified for quality systems by accredited global agencies at a very early age soon after starting our operations.

At ITCO, perfection is a built-in trait. Our well-equipped laboratory allows us to conduct and certify all the important and critical quality tests in-house.

Being fully aware that the filling compound is one of the most important and critical raw materials in a cable, we ensure that every batch manufactured by us is consistent and strictly meets the desired quality norms thereby fulfilling all the relevant specifications and customer needs.

# FORESEEING TECHNOLOGY

Innovation with us is a continuous process. Our drive to provide options that increase productivity is the key to our association with value demanding and satisfied customers. Our research lab has a unique pilot plant which gives us the added advantage of being able to provide optimal solutions for any process equipment by duly consolidating all technical aspects. It also gives us the necessary freedom and expertise to develop futuristic gels for telecommunication and power industries.

The development incorporating extremely light-weight and low-density gels under **ITCOGEL™** LF series is a testimony to this fact. Due to its non sticky nature, **ITCOGEL™** LF series gels increase productivity of dry type OF cables for specific applications. When it comes to niche cable designs in copper telecommunication cables, **ITCOGEL™** LF series has some interesting grades which may also impart substantial cost savings due to its very low permittivity and density.



*Quality and reliability are the two constants in our relationship with our customers. We strongly believe that partnering with them has been the key to our success...*



# BUILDING RELATIONSHIPS

Our commitment to excellence extends through our dedicated employees. You can count on us to promptly get you the vital information you need - from expert processing advice to product specifications; support documentation to quick response on orders.





## PROTECTING CABLES

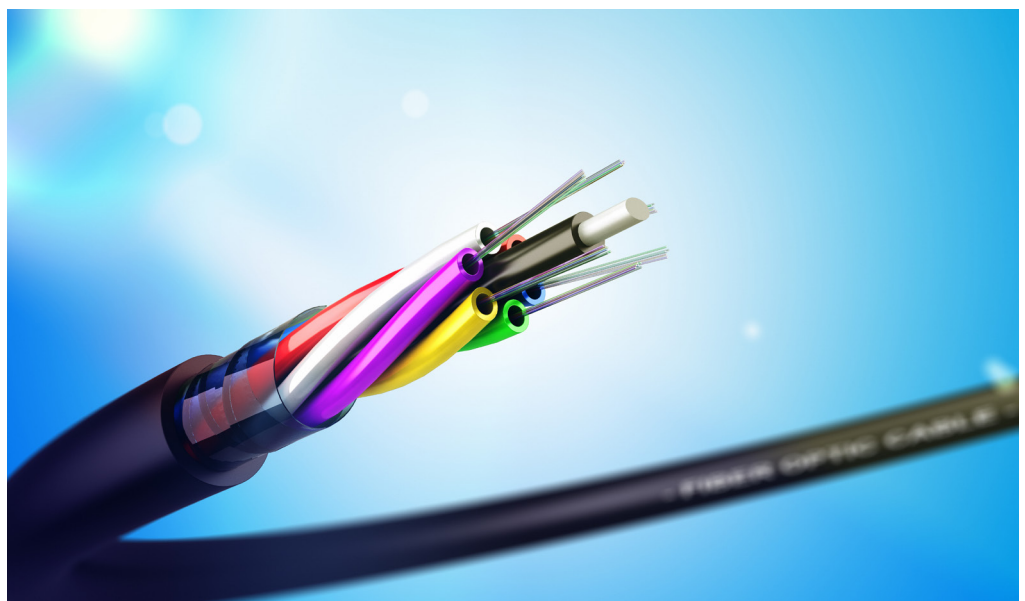
ITCO has the right solution when a longitudinal water barrier is necessary. **ITCOGEL™** protects optical fibres from moisture ingress and mechanical stress. ITCO products meet the most stringent standards set by today's cable manufacturing techniques. Our product line incorporates synthetic and aliphatic hydrocarbons having proven compatibility with a wide range of fibre coatings, inks and tube construction materials including PBT, Nylon 12, Polypropylene, etc.

**ITCOGEL™** range includes many different grades of thixotropic gels which have proven stability over a wide temperature range and are available commercially mainly under **ITCOGEL™ T** and **ITCOGEL™ C** series for filling and flooding applications respectively. These gels are used successfully worldwide for different type of cable designs including loose tube, central tube, ribbon construction, slotted core and OPGW. They have been specifically designed to pass the drip test at 80 °C while maintaining an excellent softness & stability even upto - 70°C and + 85°C allowing stress-free radial and tangential movement of the fibres. Besides having good cone penetration values, they also have significant rheological characteristics of gel, especially the yield stress and recovery time, which affect performance during processing and service life. These gels remain fluid for sufficient time to allow correct fibre overfeed into the tube with desired excess fibre length, which is essential for loose tube and central tube design.

Our product range also comprises of specialty water absorbent thixotropic gels to achieve 100% water tightness in both OFC as well as copper telecommunication cables. We now also offer synthetic wax based (hot melt) gels used in filling of copper telecommunication cables for stringent water penetration and drip test requirements, as demanded by our customers.

**100%**  
**WATER TIGHTNESS**  
**IN ALL CABLES**

Our versatile gels are being successfully used in all type of cable designs, including Loose Tube, Central Tube, Ribbon Construction, Slotted Core and OPGW.





# ITCO INDUSTRIES LIMITED

[www.itcoindia.com](http://www.itcoindia.com)

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