

# Filling Compound for Optical Fiber Cable

## Application

XF-400 is specifically designed for optical fiber loose tube at high line speeds. Its best working temperature is room temperature, with the temperature rises, its viscosity will gradually decrease.

## Feature

XF-400 is silica free, soft, non-sticky hydrophobic compound. It can remain soft at -50°C, and doesn't drip at 80°C. It is thixotropic, suitable for cold filling. It can inhibit the growth of mold, very low hydrogen evolution, zero oil separation, with excellent oxidation resistance and long-term stability.

## Main Technical Parameters

Parameter	Typical value	Test method
Appearance	semitransparent	Visual inspection
Color stability @ 130° C / 120hrs	<2.5	ASTM127
Density @ 20° C (g/ml)	0.835	ASTM D1475
Flash point (° C)	> 200	ASTM D92
Drop point (° C)	>200	ASTM D 566-93
Cone penetration @ 25° C (dmm)	450	ASTM D 217
Cone penetration @ -40° C (dmm)	>230	ASTM D 217
Viscosity @ 50 1/S / 25° C (Pa.s)	23000	YD/T 839.1-2015
Viscosity @ 200 1/S / 25° C (Pa.s)	4400	YD/T 839.1-2015
Oil separation @ 100° C / 24 hours (Wt %)	2300	YD/T 839.1-2015
Volatility @ 100° C / 24 hours (%)	0	FTM 791(321)
OIT @ 190° C (min)	<1.0	FTM 791(321)
Acid value (mg KOH/g)	>30	ASTM 3895
Water Content (ppm)	<0.3	ASTMD974-85
Hydrogen generation 80° C / 24hours(μl/g)	<0.02	
Water resistance @ 20° C / 7days	Pass	SH/T0453

## Compatibility

XF-400 is well compatible with Acrylic resin coated fiber and cable grade polymers. But we recommend the compatibility test should be made before the polymer materials are in contact with the compound.

## Manufacturability

Cold filling

## Other

1.Payment :TT/LC

30% deposit ,70% balance should be paid before shipment.

2.Delivery date

20'GP : within 7 working days after receiving the deposit.

40'GP : within 10 working days after receiving the deposit.

# Test Report

## 检测报告 Test Report

样品名称: Filling compound for optical fiber cable  
 样品型号: XZ-400  
 制造商: Shenzhen Xinchangsheng New material technology Co., Ltd  
 试验类型: Compression Test

Item	Unit	Standard	Result	Pass/Fail
4. Chloride Ion (Cl <sup>-</sup> )	%	max 0.1	0	Pass
5. Sulfate Ion (SO <sub>4</sub> <sup>2-</sup> )	%	max 0.1	0.1	Pass
6. Free acid	%	Greater than 0.05	<0.05	Pass
7. Oxidation Induction Time (OIT)	min	max 20	100	Pass
8. Hydroperoxide (HTO)	wt%	max 0.05	0.008	Pass
9. Water content	%	max 0.05	<0.05	Pass
10. Color stability (YI)	ΔE	max 1.5	0.1	Pass
11. Water Absorbance (20°C, 100%)		No requirement	No requirement	Pass
12. TGA, 5% weight loss (50°C, 100%)		No requirement	No requirement	Pass
13. The compatibility of the compound with other materials at Laminated fiber tape test (50°C, 72h)		No deterioration of compound	No deterioration of compound	Pass
14. The base fiber's wrapping test		No crack or	No crack or	Pass

Address: Kangan New Village, T108, Binyangwan Community, Guangzhou Subdistrict, Shenzhen, China
Tel: 0755-27070801 P.C. JAH No: 502050
Name: Shenzhen Xinchangsheng New material technology Co., Ltd
Address: Kangan New Village, T108, Binyangwan Community, Guangzhou Subdistrict, Shenzhen, China
Tel: 0755-27070801 P.C. JAH No: 502050
Shipping mode: Expedited by air/sea/road Service mode of packing: Normal Working date: 2017-08-28
Test standard: Refer to GB/T 3062.2-2014 Filling compounds and bonding adhesives for telecommunication cable and optical fiber cable Part 2: Filling compounds for optical fiber cable
Inspection standard: Filling compounds and bonding adhesives for telecommunication cable and optical fiber cable Part 2: Filling compounds for optical fiber cable
Conclusion: The same tested for the same sample. Refer to GB/T 3062.2-2014

### for Safe Transport of Chemical Goods

**危险化学品货物**

样品名称: 环氧树脂胶

Sample Name: Epoxy resin for optical fiber cable

危险类别: 高度易燃液体

危险特性: 高度易燃, 对皮肤有刺激性

包装类别: 高度易燃液体, 对环境有害



制造商/生产商: 深圳鑫昌盛新材料科技有限公司	Manufacturer: Shenzhen Xinchangsheng New material technology Co., Ltd
销售商/经销商: 深圳市宝安区西乡街道西乡社区西乡大道101号	Sales/Dealer: No. 101, West Xiang Road, West Xiang Community, Xixiang Street, Bao'an District, Shenzhen
产品名称/品名: 环氧树脂胶	Product Name: Epoxy resin for optical fiber cable
联合国危险货物编号: 2800	UN Hazardous Goods Number: 2800
危险类别: 高度易燃液体	Hazard Class: Highly flammable liquid
危险特性: 高度易燃, 对皮肤有刺激性	Hazardous Properties: Highly flammable, irritant to skin
包装类别: 高度易燃液体, 对环境有害	Packing Group: Highly flammable liquid, harmful to the environment
危险货物名称: 高度易燃液体	Proper Shipping Name: Highly flammable liquid
危险货物描述: 高度易燃液体	Hazardous Goods Description: Highly flammable liquid

危险货物名称: 高度易燃液体	Proper Shipping Name: Highly flammable liquid
危险货物描述: 高度易燃液体	Hazardous Goods Description: Highly flammable liquid
危险货物类别: 高度易燃液体	Hazardous Goods Class: Highly flammable liquid
危险货物特性: 高度易燃, 对皮肤有刺激性	Hazardous Goods Properties: Highly flammable, irritant to skin
危险货物包装: 高度易燃液体, 对环境有害	Hazardous Goods Packaging: Highly flammable liquid, harmful to the environment
危险货物名称: 高度易燃液体	Proper Shipping Name: Highly flammable liquid
危险货物描述: 高度易燃液体	Hazardous Goods Description: Highly flammable liquid

Shenzhen Xinchanglong New Material Technology Co., Ltd  
No.114 Xiangxi Xinwei, Songyuanxia Community, Guanlan Street, Longhua New District, Shenzhen

2016-05-18

### Confirmation Letter of REACH Pre-Registration

Dear Madam/Sir,

With the authorisation of Shenzhen Xinchanglong New Material Technology Co., Ltd, we act as Only Representative to fulfil the obligations of EU importers under TITLE II "REGISTRATION OF SUBSTANCES" of "Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006" (hereinafter referred to as "REACH") for the chemical substance listed in Annex of Power of Attorney (No.: CSPM-COP-017-1600233).

After successfully submitting the pre-registration dossier(s) to ECHA, we are pleased to inform you to confirm obtaining 4 submission report(s) with corresponding pre-registration number(s) listed in Annex.

Congratulations on your successful pre-registration under REACH regulation and wish you well in your export business.

#### Important Notice: Application of REACH Tonnage Coverage Certificate

It shall be noted that we, as only representative, shall maintain the list of importers and keep up-to-date information on quantities imported and customers sold to according to article 8 of REACH. When appointing an only representative, it is necessary that the "non-Community manufacturer" provides his only representative with up-to-date information on the list of EU importers which should be covered by the registration of the only representative and the quantities imported into the EU.

You shall inform us of your customers in Europe and quantities imported by applying for a REACH tonnage coverage certificate from CIRS.

It is also recommended that importers get their chemical products certified by applying for REACH tonnage coverage certificate for their imports from CIRS free of charge. The certificate confirms that imported chemical products are covered by the (pre)registration(s) of Chemical Inspection and Regulation Service Limited (OR) and the importers will be regarded as downstream users (DU) and do not need to do their own REACH registration. A sample REACH tonnage coverage certificate is available here.

[http://www.cirs-reach.com/REACH/REACH\\_Certificate\\_Of\\_Compliance.pdf](http://www.cirs-reach.com/REACH/REACH_Certificate_Of_Compliance.pdf)

#### Why REACH Tonnage Coverage Certificate Is Important?

Firstly, there are many practical questions associated with documenting compliance at the point of entry of goods into the Customs territory of the European Union (EU), particularly with respect to valid pre-registrations, whether the substances are exempt or not from registration, whether the pre-registration obligation was taken over by the importer, the only representative of the exporter, or the only representative of the exporter's supplier and whether the quantities imported have exceeded the tonnage band registered. A certificate of compliance issued by OR will solve those issues.

Secondly, ECHA Guidance on Registration 1.5.3.4 clearly states "In cases where an importer is also importing quantities of the same substance directly, then both the only representative and the importer must be able to clearly document to enforcement authorities which imports are covered by the registration of the only representative (OR); and which are covered by the importer; otherwise, the importer remains responsible for all his imports."

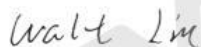
Thirdly, CEFIC guidance document also states that an Only Representative (OR) must have an available and up-to-date record of those importers that are covered by his registration and therefore become Downstream Users (DU). In addition, all the importers covered by an OR must be aware that such OR exists and that he covers his substance and volume in his registration.

#### Further Help

If you need further help, verify the validity of any document or apply for new REACH tonnage coverage certificate for your new exports/imports or previous exports/imports, please contact:

Ms Alice Qian, Supply Chain Communications Officer  
[info@cirs-reach.com](mailto:info@cirs-reach.com)

Very truly yours,



**Walt Lin**  
Vice president, CIRS

ANNEX I: List of Pre-registration Number

List of Pre-registration Number

No	Name	CAS-No	Pre-Registration No.
1	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	17-2120116619-54-0000
2	styrene	100-42-5	17-2120116620-71-0000
3	ethylene	74-85-1	17-2120116621-69-0000
4	butene	25167-67-3	17-2120116622-67-0000

-----End of the list-----