

CHEMLOK® 5150

Technical Data Sheet

Chemlok® 5150 is a solvent-based system used to affix uncured fluoroelastomers to metal. It also works on fluoroelastomers with an incorporated cure system to mechanically prepared metals as well as phosphatized metals, like those used in the manufacture of dynamic seals. Chemlok 5150 also affixes fluoroelastomers to stainless steel, aluminum and brass.

Features and Benefits

Excellent Appearance: provides good cosmetics; resists staining or discoloring of non-black elastomers.

Versatile: affixes a wide variety of fluoroelastomers and metals; accommodates a wide variety of postcures and is tolerant of compounding variables.

Easy to Apply: low viscosity allows for easy application.

Fluid Resistant: provides good resistance to Reference Fuel C, No. 2 diesel and other fluids.

Elastomers

- Fluoroelastomer (FKM)
- Viton®

Application

Surface Preparation: Thoroughly clean metal surfaces prior to application. Remove protective oils, cutting oils and greases by solvent degreasing or alkaline cleaning. Remove rust, scale or oxide coatings by suitable chemical or mechanical cleaning methods.

For further detailed information on surface preparation of specific substrates, refer to Chemlok application guide.

Mixing: No agitation is required before or during use. If dilution is needed, satisfactory results are usually obtained with dilutions of 1:1 using methanol or ethanol. Dilutions of 10 parts alcohol to 1 part Chemlok 5150 are possible.

Applying: Apply Chemlok 5150 by dip, tumble spray or regular spray methods.

Drying/Curing: Allow Chemlok 5150 to air-dry, maintaining forced air drying temperatures below 93°C (200°F).

Chemlok 5150 cures at 165-188°C (330-370°F). Post cures of 12-24 hours at 204-232°C (400-450°F) can be used. For exceptionally thick parts, use a step postcure beginning at 149°C (300°F), and increase the temperature in 10°C (50°F) increments at two hour intervals until a temperature of 204-232°C (400-450°F) is achieved.

Shelf Life/Storage

Shelf life is one year from date of shipment when stored by the recipient at 21-27°C (70-80°F) in original, unopened container.

Typical Properties*	
Appearance	Colorless to Pale Yellow Liquid
Density kg/m ³ (lb/gal)	780.0 - 830.0 (6.5 - 6.9)
Solids Content by Weight, %	4.9 - 5.8
Flash Point (Seta), °C (°F)	6 (43)
Solvents	Methanol

*Data is typical and not to be used for specification purposes.

Cautionary Information

Before using this or any Parker Lord product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

Verify Volatile Organic Compounds (VOC) requirements with the applicable local, regional and state air quality authorities before importing, selling or using this product. VOC rules, thresholds and reporting obligations vary by jurisdiction; compliance is the responsibility of the importer/seller/owner.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

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DS6021CE OD 06/26 Rev.2

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CHEMLOK® 5150

技术说明书

Chemlok® 5150是一种溶剂型表面处理剂,用于帮助和促进未固化的含氟弹性体附着至金属。本品还可用于帮助和促进可自固化的含氟弹性体附着至经过机械处理的金属或者磷化后的金属(例如动态密封件制造中使用的磷化金属)。Chemlok 5150还可帮助和促进含氟弹性体附着至不锈钢、铝和黄铜。

特征和优点

外观出众: 有良好的装饰效果;使用本品后,非黑色弹性体可抗污渍、抗变色。

用途广泛: 可帮助和促进各种含氟弹性体附着至各种金属;适用于各种二次固化工艺及不同含氟弹性体的配方差异。

易于涂敷: 粘度低,容易涂敷。

抗流体性: 对标准燃油C、2号柴油和其他流体具有良好的抗流体性。

弹性体

- 含氟弹性体 (FKM)
- Viton®

使用方法

表面处理 – 在涂敷前,应彻底清洗金属表面。使用溶剂型除油剂或碱性清洗剂去除金属表面的保护油、切削油和油脂。选择适当的化学清洗或机械清洗方法除去金属表面的锈、氧化皮或氧化膜。

对于特定基材的表面处理的详细信息请参阅Chemlok/Chemosil应用指南。

混合: 使用前或使用过程中无需搅拌。如需稀释,一般用甲醇或乙醇按1:1的比例进行稀释,可以得到满意的稀释效果。最多可按乙醇与Chemlok 5150 10:1的比例进行稀释。

涂敷: Chemlok 5150可用浸涂、滚动喷涂或常规喷涂。

干燥/固化: 自然风干。强制通风干燥温度必须低于93°C (200°F)。

Chemlok 5150的固化温度为165-188°C (330-370°F)。可在204-232°C (400-450°F)的温度下进行12至24小时的二次固化。如果工件特别厚,可分步实施二次固化,起始温度为149°C (300°F),然后每两小时提高一次温度,每次加温10°C (50°F),最终温度为204-232°C (400-450°F)。

保质期/储藏要求

自发货之日起,保质期为一年,但是收货人必须使用出厂未开封的原装容器,且保存在21-27°C (70-80°F)的环境下。

典型特性*

外观	无色至浅黄色液体
密度 kg/m ³ (lb/gal)	780.0 - 830.0 (6.5 - 6.9)
固体含量, %	4.9 - 5.8
闪点 (Seta), °C (°F)	6 (43)
溶剂	甲醇

*典型数据不可作为产品标准之用。

警示信息

使用本品或派克洛德 (Parker Lord) 任何产品之前, 请参阅安全数据表 (SDS) 和产品标签上关于安全使用和处理的说明。

在进口、销售或使用本产品之前, 请与当地及相关国家区域的空气质量主管部门核实挥发性有机物 (VOC) 的要求。VOC 的规定、阈值和报告义务因地区而异; 合规责任在于进口商/销售商/所有者。

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DS6021CE OD 06/26 Rev.2

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