

Product Data Sheet: ELKN-T-691-140213B

FastKcoat® T-691 *Excellent water-borne lubricating sealer*

– for the corrosion resistance and lubricity of passivated galvanized metals

Characteristics:

1. Excellent dry-film lubrication.
2. Excellent corrosion resistance.
3. Economical and Dilutable for use.
4. Chromate (Cr⁶⁺ & Cr³⁺)-free, conforming to RoHS & VOC regulations.
5. Easy to use
6. Non-inflammable, non-toxic, and pollution free.

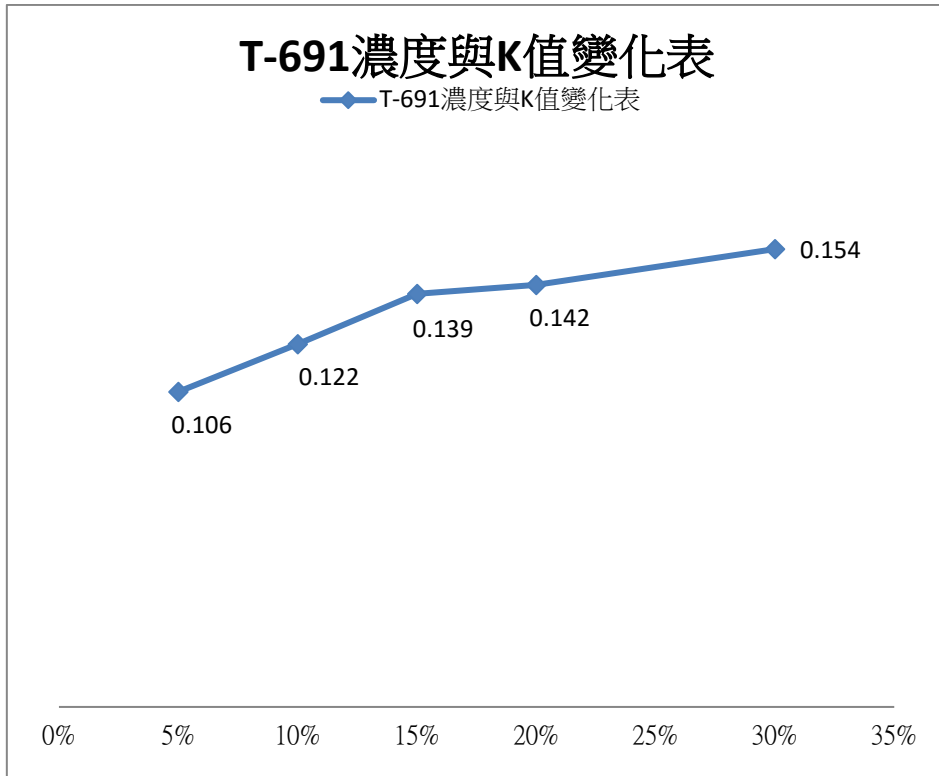
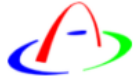
Description:

FastKcoat® T-691 is an excellent, water-borne dry-film lubricating sealer for galvanized substrates, to combine the effects of corrosion resistance and abrasion resistance. With its pH value at 8~9, **FastKcoat® T-691** is suitable to use in neutral or weakly alkaline conditions.

FastKcoat® T-691 works efficiently and effectively on passivated, galvanized metal pieces with respect to the corrosion resistance. Depending on the requirements of anti-corrosion target, **FastKcoat® T-691** can be diluted readily with deionized water, ready for applying onto metal surfaces, to achieve the required performance economically. As a start of trial, we suggest to dilute **FastKcoat® T-691** to 1/10 its original concentration and apply it onto galvanized substrates, to test its lubricity and corrosion resistance. Then a ladder test can be tried until the final performance matches the target.

In general, the lubricity of the metal pieces treated with **FastKcoat® T-691** can be enhanced significantly. Following are the illustrations of the relation between the **FastKcoat® T-691** concentrations and the friction coefficients achieved on galvanized substrates. The results indicate its performance is comparable, if modestly speaking, to the existing equivalents in the market, while with relatively economical consumption.

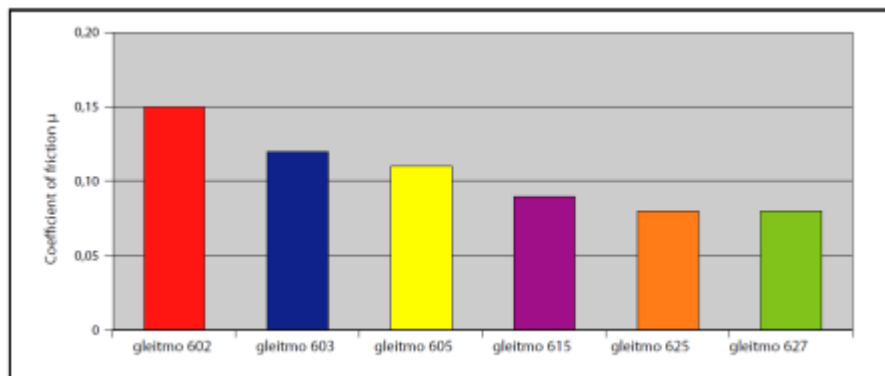
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The relation between **FastKoat**® T-691 concentrations and friction coefficients k *

concentration	5%	10%	15%	20%	30%
n					
k value	0.106±0.008	0.122±0.008	0.139±0.006	0.142±0.004	0.154±0.004

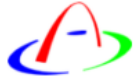
* The results are for reference only. Due to the variety of test conditions, we suggest individual testings to be required to fit their different purposes.



市場上現有廠家類似產品的磨擦係數k值範圍

Information source: http://www.purchasepartners.com/files/hmp_films.pdf

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Under normal conditions, the metal pieces are to be clean and dry, before dipping in the diluted solution of **FastKoat**[®] T-691, followed by drying at ambient temperature or by forced-drying. It is highly recommended to monitor and maintain the pH value of the prepared solution during and after use, in order to ensure the consistent performance.

Furthermore, **FastKoat**[®] T-691 contains no chrome (Cr6+ and Cr3+) or other hazardous ingredients and conformed to the ever more stringent regulations, such as RoHS and VOC, etc., **FastKoat**[®] T-691 can be a reliable material for the long term development.

Specifications:

Appearance:	Light emulsified, translucent solution
Chemical Type:	Special complexed hybrid solution
Sp. gravity , gm/ml , 25°C:	1.01 ± 0.01
pH Value:	8.0 ~ 9.0

Suggetions:

1. Preparation: Dilute **FastKoat**[®] T-691 readily with proper amount of deionized water at room temperature in a holding tank, preferably of plastic or stainless steel type.
2. In Use: Closely monitor and control the pH value of diluted **FastKoat**[®] T-691 solution on-line in the range of 6~8, and its non-volatile within 10% of its initially prepared concentration. To avoid any potential contamination, the galvanized metal pieces should be kept clean and dry thoroughly before contact with the **FastKoat**[®] T-691 solution.
3. After Use: A daily filtration of the prepared **FastKoat**[®] T-691 after use is highly recommended, to remove any contaminated impurities. The holding tank containing the **FastKoat**[®] T-691 solutions has to be covered after use. The containers and tools in contact with the **FastKoat**[®] T-691 have to be cleaned with water immediately after use.

Packages:

20 kilograms in PE plastic pails or 200 kilograms in PE plastic drums ◦

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