

# Case study: Reducing maintenance cost in FPD industry

## TOMBO™ No. 2670/2675/2680/2685 BLAZER™ O-ring



### Industry

FPD / Semiconductor

### Customer

LCD Panel Manufacturer

### Background

In etching processes for TFT-LCD and AMOLED, many rubber O-rings are used for the maintenance of production equipment. However, customer's current solution had a short lifespan resulting in increased maintenance frequency every two months and incurred additional labour costs. As a result, customer was looking for O-rings that had longer life span which would reduce overall maintenance costs.

### Challenges faced

The customer was reluctant to trialling a new solution due to the involved risk of different performance. If there are quality and compatibility issues, these can lead to equipment damage or even failure. So any new solution would need to be match-to-match for current O-rings but with longer life span than what customer currently had.

### Solution and benefits

Nichias develops high-performance O-rings. Therefore, the team had sufficient technical information, support, and analysis equipment to appropriately evaluate customer's requirements. Therefore, NICHIAS can conduct data-based scientific evaluation and identify durability concerns such as chemical resistance within the existing O-ring solution.

By doing this match-to-match investigation, NICHIAS was able to recommend the BLAZER™ O-ring product line which has a superior chemical resistance. This in turn increases its durability.

By adopting this solution, customer was able to increase the life span from 2 months of the original solution to 6-12 months with the BLAZER™ product line.

Although the price is higher than conventional products, the reduced replacement frequency leads to improved cost performance. As a result reduction in maintenance costs and improved productivity were achieved.

For more information, please visit:

<https://nichias.co.jp/en/>



BLAZER™ O-ring

#### ■ Head Office

6-1, Hatchobori 1-chome, Chuo-ku, Tokyo 104-8555, Japan  
**International Marketing and Sales Group**  
 Phone: 81-3-4413-1132 Fax: 81-3-3552-6108  
 Web Site: <https://www.nichias.co.jp/>

#### ■ Overseas Sales Companies

##### Indonesia

##### PT. NICHIAS SUNIJAYA

Sequis Tower Level 19 Suite 1&2,  
 Jl. Jend Sudirman Kav. 71, Jakarta 12190, Indonesia  
 Phone: +62-21- 2277-6101 Fax: +62-21- 2793-8033

##### Malaysia

##### NICHIAS SOUTHEAST ASIA SDN. BHD.

Suite A1102, 11th Floor, West Wing, Wisma Consplant 2,  
 No. 7, Jalan SS 16/1, 47500 Subang Jaya, Selangor Darul Ehsan, Malaysia.  
 Phone: +60-3-5636-4067 Fax: +60-3-5636-4078

##### Singapore

##### NICHIAS SINGAPORE PTE. LTD.

25 International Business Park, #01-15/17 German Centre,  
 Singapore 609916  
 Phone: +65-6571-0830/0838 Fax: +65-6265-7681

##### Vietnam

##### NICHIAS VIETNAM CO., LTD

Room 709, Elite Business Center, 7th Floor Diamond Flower Building,  
 48 Le Van Luong Street, Nhan Chinh Ward, Thanh Xuan District,  
 Hanoi, Vietnam  
 Phone: + 84-24-6664-3136 Fax: + 84-24-6666-8168

##### Thailand

##### NICHIAS (THAILAND) CO., LTD.

85 Moo 1, Wellgrow Industrial Estate T. Homsin, A. Bangpakong  
 Chachoengsao 24180, Thailand  
 Phone: +66-38-570-600 Fax: +66-38-570-601

##### THAI NICHIAS INTERNATIONAL CO., LTD.

Unit 1107, 11th Floor, AIA Capital Center  
 89 Ratchadaphisek Road, Dindaeng, Dindaeng, Bangkok 10400 Thailand  
 Phone: +66-2-001-2060 Fax: +66-2-001-2062

##### China

##### NICHIAS (SHANGHAI) TRADING CO., LTD.

霓佳斯 (上海) 贸易有限公司  
 Room 1701, THE PLACE, Tower A, No. 100 Zun Yi Road,  
 Changning District, Shanghai, P.R.China Postcode 200051  
 中国上海市长宁区遵义路100号虹桥南丰城A栋1701室 邮编200051  
 Phone: +86-21-6236-1783 Fax: +86-21-6236-1781

##### NICHIAS (SHANGHAI) TRADING CO., LTD. Guangzhou Branch

霓佳斯 (上海) 贸易有限公司 广州分公司  
 17F-G, Gold Sun Building, No.109 Tiyu West Road, Guangzhou,  
 Guang Dong Province, 510620, P.R.China  
 中国广东省广州市天河区体育西路109号高盛大厦17楼G室 邮编 510620  
 Phone: +86-20-3879-1640 Fax: +86-20-3879-1647

##### NICHIAS (SHANGHAI) AUTOPARTS TRADING CO., LTD.

霓佳斯 (上海) 汽车零部件贸易有限公司  
 Room 1702, THE PLACE, Tower A, No. 100 Zun Yi Road,  
 Changning District, Shanghai, P.R.China Postcode 200051  
 中国上海市长宁区遵义路100号虹桥南丰城A栋1702室 邮编200051  
 Phone: +86-21-6236-2668 Fax: +86-21-6236-2667

#### ■ Overseas Construction Companies

##### Malaysia

##### NICHIAS SOUTHEAST ASIA SDN. BHD.

Suite A1102, 11th Floor, West Wing, Wisma Consplant 2,  
 No. 7, Jalan SS 16/1, 47500 Subang Jaya, Selangor Darul Ehsan, Malaysia.  
 Phone: +60-3-5636-4067 Fax: +60-3-5636-4078

##### Thailand

##### THAI-NICHIAS ENGINEERING CO., LTD.

45 Huaypong-Nongbon Road, Huaypong, Muang Rayong,  
 Rayong Province 21150, Thailand  
 Phone: +66-38-682-242 Fax: +66-38-691-156

#### ■ Overseas Factories

##### Indonesia

##### PT. NICHIAS ROCKWOOL INDONESIA

##### PT. NICHIAS METALWORKS INDONESIA

##### Malaysia

##### NICHIAS FGS SDN. BHD.

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