

# HYREC ARMOR<sup>®</sup>



## TYPICAL PROPERTIES

Hardness (Shore A)	Tensile strength (MPa)	Elongation (%)	Modulus 100% elongation (MPa)	Service temperature range	Compression Set (%)
58	13.0	440	1.2	~200°C	22%

Compression Set: After squeezing 25% at 200°C x 72 hours

Above values are actual measurements, not standards.

### Features

- Plasma Resistance
- Low Adhesion to Quartz
- Low Metallic Impurities
- Heat Resistance

### Applications

- Dry Etch Equipment
- Plasma Enhanced CVD Equipment
- Plasma Ashing Equipment



VALQUA KOREA Co., Ltd.

# Actual Equipment Evaluation Example

Scanning Electron Micrograph of elastomer surface after plasma exposure.

**Equipment: Etcher**

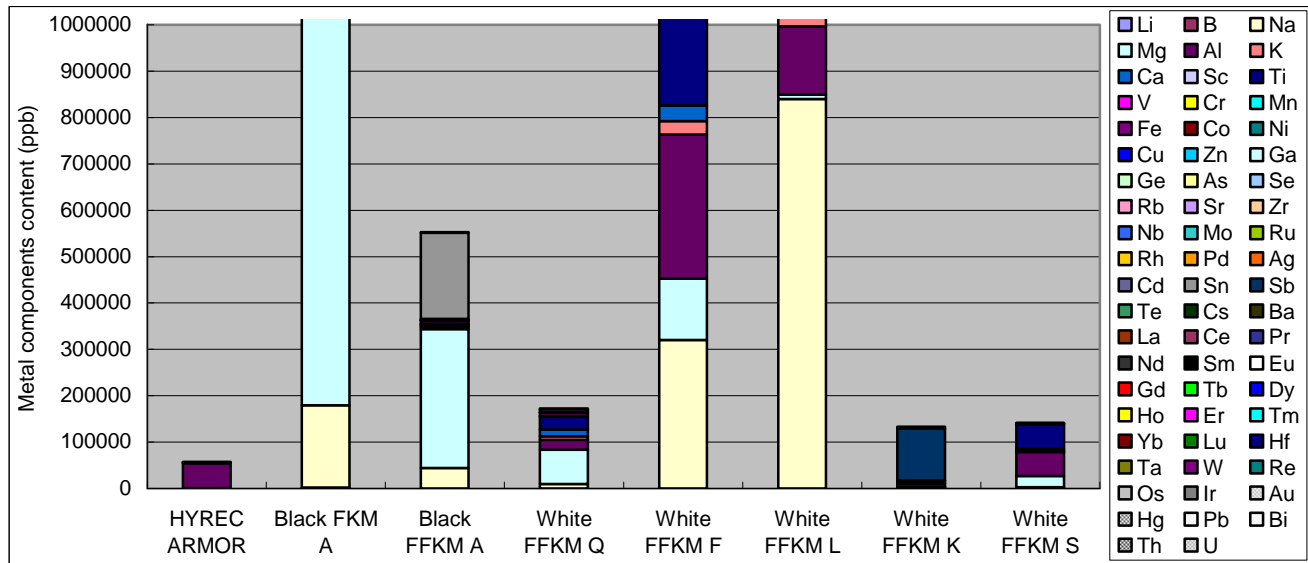
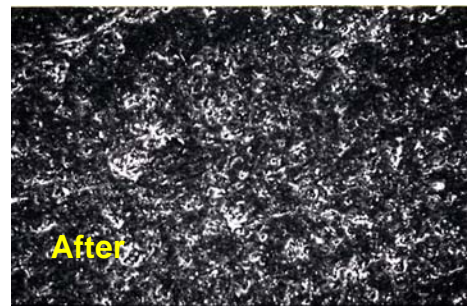
O-ring Size: AS568A-207 Gas: Cl<sub>2</sub> +BCl<sub>3</sub>+Ar Plasma Power: 1000~1500W Temp: 100~200°C  
 Evaluation Period: HYREC ARMOR: 2 months Competitor: 1.5 months



HYREC ARMOR



Competitor  
Perfluoro White



All trademarks and registered trademarks noted in this file are the exclusive property of Nippon Valqua Industries, Ltd. unless otherwise specified. Although these data are created based on the data and the information of September 2009, Nippon Valqua Industries Ltd. may change these data without notice for the reason of improvement in functional of a product, standard revision and others. Please note the following point in use of these data. (1) An operating temperature, pressure range, durability, etc. indicated in this catalogue do not assume each operation conditions but show the application possibility based on our company data, an actual result, etc. Therefore, please use these data after checking the aptitude in actual use environment. (2) The data contained within this catalogue can only be taken as a guide. (3) A standard, a value, etc. are the purposes made legible, and may be performing an extract, recombination, arrangement, conversion, etc. of a value. (4) Although the maximum attention was paid in this data creation, Nippon Valqua Industries Ltd. will not accept responsibility for any loss incurred through error or omission. Please contact your distributor or VALQUA group if you have any questions. (5) This document contains confidential information. So please do not disclose this confidential information to the third party without our company's permission.  
 © 2009 Nippon Valqua Industries, Ltd. All rights reserved.  
 Manufactured in Japan.



**VALQUA KOREA Co., Ltd.**  
<http://www.valqua.co.kr>

**Contact:**

**VALQUA KOREA Co., Ltd.**  
 Bookook Securities B/D#602, 34-2 Yeouido-Dong,  
 Yeongdeungpo-Gu, Seoul, Korea (150-995)  
 Tel: +82-2-786-6718, Fax: +82-2-786-6719