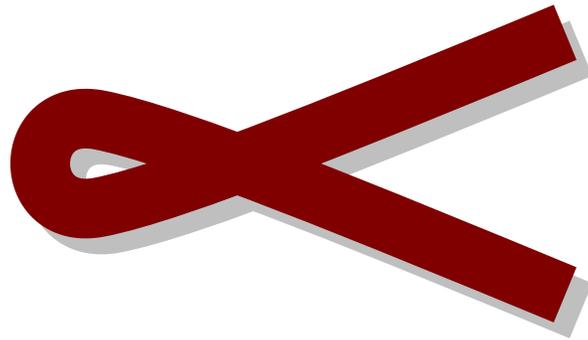


**A l f a - I c a**  
*chemical resistant surface.*



*Alfa ica*

AS PER EN-438-2

***www.alfaica.com***

**Alfa-ica Chemical-Resistant Laminate**

## Technical Data

### Manufacturer

**Alfaica (i) ltd**  
**Alfa pallazio**  
**Satellite**  
**Gujarat, India.**  
**Phone: 0091-79-26754030**  
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**Web Site: [www.alfaica.com](http://www.alfaica.com)**

### 1. Product Description

#### Recommended Uses:

Alfaica chemical resistant laminate is unrivalled in applications for high stress environment that require resistant to harsh chemicals. Specific applications may include laboratory bench tops, hospital or health facility countertops, beauty salons and product testing facilities.

#### Product Composition:

A special resin formulation is applied over the decorative surface paper to achieve chemical resistance. The decorative paper is treated with melamine resin; and the core is composed of kraft papers impregnated with phenolic resin. These sheets are then bonded at pressures greater than 1000 pounds per square inch at temperatures approaching 300°F (149°C).

#### Basic Limitations

Chemical resistant laminates are not recommended for external use. The laminate should not be bonded to plaster board, concrete blocks or similar materials.

#### Colors

Chemical resistant laminate will be available in on all the colors of our range.

#### Applicable standards

Alfaica laminate meets the surface requirements published in BS EN438 and NEMA LD3.

### 2. Technical Data

Table “Chemical and Stain Resistance” provides a list of chemicals tested for their effect on our chemical resistant laminate.

| sr | Test material                  | Test procedure | Contact time | Result                   |
|----|--------------------------------|----------------|--------------|--------------------------|
| 1  | acetone                        | EN438 ( 15.5)  | 24hrs        | No effect                |
| 2  | Citric Acid (10%solution)      | EN438 ( 15.5)  | 24hrs        | No effect                |
| 3  | Phenol                         | EN438 ( 15.5)  | 24hrs        | Small blister on surface |
| 4  | Mustard                        | EN438 ( 15.5)  | 24hrs        | No effect                |
| 5  | Alcoholic Beverages            | EN438 ( 15.5)  | 24hrs        | No effect                |
| 6  | Toothpaste                     | EN438 ( 15.5)  | 24hrs        | No effect                |
| 7  | Hydrogen peroxide(3%solution)  | EN438 ( 15.5)  | 16hrs        | No effect                |
| 8  | Ammonia(10%solution)           | EN438 ( 15.5)  | 16hrs        | No effect                |
| 9  | Detergent(10%solution)         | EN438 ( 15.5)  | 16hrs        | No effect                |
| 10 | Black tea                      | EN438 ( 15.5)  | 16hrs        | No effect                |
| 11 | Milk                           | EN438 ( 15.5)  | 16hrs        | No effect                |
| 12 | Wine Vinegar                   | EN438 ( 15.5)  | 16hrs        | No effect                |
| 13 | Sodium hydroxide(25%solution)  | EN438 ( 15.5)  | 10min        | No effect                |
| 14 | Hydrogen Peroxide(30%solution) | EN438 ( 15.5)  | 10min        | No effect                |
| 15 | Sulphuric Acid(98%solution) *  | EN438 ( 15.5)  | 10min        | No effect                |
| 16 | Bleaching Agents               | EN438 ( 15.5)  | 10min        | No effect                |
| 17 | Concentrated Vinegar           | EN438 ( 15.5)  | 10min        | No effect                |
| 18 | Iodine                         | EN438 ( 15.5)  | 10min        | No effect                |

#### Test procedure

5 drops of each reagent were applied on the surface and covered with a watchglass. The chemicals were tested for specific time as stated in table.

\*Reagents marked with an asterisk (\*) may cause slight change in color and gloss if the duration of exposure is more than 10mins.