



## KLINGERSIL® C-4430, Relaxed

KLINGERSIL® C-4430 is manufactured with a combination of aramid fiber and fiberglass reinforced with a nitrile binder. This gasket material provides outstanding stress relaxation and resistance to hot water and steam making it suitable for a wide range of applications.

TECHNICAL DATA SHEET | (EFFECTIVE 26FEB21)

### KLINGERSIL® C-4430, Relaxed

| PHYSICAL PROPERTY                             | TEST METHOD                                                                                                                    | UNIT                                    | VALUE            |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------|
| Color                                         | --                                                                                                                             | --                                      | Green or White   |
| Composition                                   | Aramid fiber and fiberglass reinforced with a nitrile binder                                                                   |                                         |                  |
| Application                                   | Oils, gases, salt solutions, fuels, alcohols, moderate organic and inorganic acids, hydrocarbons, lubricants, and refrigerants |                                         |                  |
| Creep Relaxation                              | ASTM F38B (1/32")                                                                                                              | %                                       | 20               |
| Sealability                                   | ASTM F37A (1/32")                                                                                                              | ml/hr                                   | <0.5             |
| Gas Permeability                              | DIN 3535/6                                                                                                                     | ml/min                                  | <0.5             |
| Compressibility                               | ASTM F36J                                                                                                                      | %                                       | 6 - 14           |
| Recovery                                      | ASTM F36J                                                                                                                      | % minimum                               | 50               |
| <b>KLINGER Hot Compression Test</b>           |                                                                                                                                |                                         |                  |
| Thickness Decrease                            | 73°F (23°C)                                                                                                                    | % initial                               | 12               |
| Thickness Decrease                            | 572°F (300°C)                                                                                                                  | % additional                            | 11               |
| <b>Weight Increase after Immersion in:</b>    |                                                                                                                                |                                         |                  |
| Fuel B, 5h/73°F (23°C)                        | ASTM F146                                                                                                                      | % maximum                               | 10               |
| <b>Thickness Increase after immersion in:</b> |                                                                                                                                |                                         |                  |
| ASTM Oil IRM 901, 5h/300°F (149°C)            | ASTM F146                                                                                                                      | %                                       | 0 - 5            |
| ASTM Oil IRM 903, 5h/300°F (149°C)            |                                                                                                                                |                                         | 0 - 3            |
| ASTM Fuel A, 5h/73°F (23°C)                   |                                                                                                                                |                                         | 0 - 5            |
| ASTM Fuel B, 5h/73°F (23°C)                   |                                                                                                                                |                                         | 0 - 5            |
| Dielectric Strength                           | ASTM D149-95a                                                                                                                  | kV/mm                                   | 16               |
| Density                                       | ASTM F1315                                                                                                                     | lb/ft <sup>3</sup> (g/cc <sup>3</sup> ) | 96 (1.55)        |
| Leachable Chloride Content                    | FSA Method                                                                                                                     | ppp                                     | 150              |
| Line Call Out                                 | ASTM F104                                                                                                                      | --                                      | F712132B3E11K6M5 |