



Compound

**20763****FLUROSILICONE  
70DUROMETER  
BLUE COLOR****PRODUCT DATA SHEET**

Compound 20763 is a 70 durometer blue colored Fluorosilicone elastomer. It exhibits good resistance to heat, compression set, synthetic based oils and aromatic fuels.

This compound will meet or exceed the specifications listed and has the following physical properties:

MIL-R-25988 Class 1, Grade 70, Type 1 and 11

**Original Properties**

|                           |               |           |
|---------------------------|---------------|-----------|
| Modulus @ 100% Elongation | 517 psi       | 3.6 MPa   |
| Tensile Strength          | 1138 psi      | 7.8 MPa   |
| Ultimate Elongation       | 230 %         |           |
| Hardness, Shore A         | 72 Durometer  |           |
| Specific Gravity          | 1.52 grams/cc |           |
| Brittleness Temperature   | -80 °F        | -62 °C    |
| Tear Resistance, Die B    | 91 ppi        | 15.9 kN/m |

**Compression Set**

|                                 |        |
|---------------------------------|--------|
| Plied: 22 hrs @ 347°F (175°C)   | 18.1 % |
| Stauffer Blend, plied: 70 hrs @ | 18.7 % |
| Plied: 70 hrs @ RT (73°F, 23°C) | 12.4 % |

**HEAT AGED: 70 hrs @ 392°F (200°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 12.0 % |
| Change - Elongation        | - 21.7 % |
| Change - Hardness, Shore A | + 4      |
| Change - Weight            | - 0.7 %  |

**HEAT AGED: 70 hrs @ 437°F (225°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 27.9 % |
| Change - Elongation        | - 30.4 % |
| Change - Hardness, Shore A | + 3      |

**ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 34.0 % |
| Change - Elongation        | - 34.8 % |
| Change - Hardness, Shore A | - 12     |
| Change - Volume            | + 27.1 % |

**ASTM OIL #1: 70 hrs @ 302°F (150°C)**

|                            |         |
|----------------------------|---------|
| Change - Tensile Strength  | - 6.3 % |
| Change - Elongation        | 0.0 %   |
| Change - Hardness, Shore A | 0       |
| Change - Volume            | + 1.0 % |



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**ASTM OIL #3: 70 hrs @ 302°F (150°C)**

|                            |         |
|----------------------------|---------|
| Change - Tensile Strength  | - 9.2 % |
| Change - Elongation        | 0.0 %   |
| Change - Hardness, Shore A | - 3     |
| Change - Volume            | + 4.7 % |

**STAUFFER BLEND 7700: 70 HRS @ 302°F (150°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 33.0 % |
| Change - Elongation        | - 17.4 % |
| Change - Hardness, Shore A | - 9      |
| Change - Volume            | + 11.2 % |

**ASTM REFERENCE FUEL B: 22 hrs @ RT (73°F, 23°C)**

|                            |          |
|----------------------------|----------|
| Change - Tensile Strength  | - 32.3 % |
| Change - Elongation        | - 30.4 % |
| Change - Hardness, Shore A | - 10     |
| Change - Volume            | + 24.3 % |

**TR-10 ASTM D1329 (10% Retraction @ °F)**

|             |           |
|-------------|-----------|
| Temperature | - 74.0 °F |
|-------------|-----------|