



Overview

SI70TR37 is a translucent, platinum cured 70 shore A silicone designed for use in food, pharmaceutical, & medical applications. It is USP VI <87> & <88> and FDA compliant.

Features & Benefits

- Platinum cured silicone
- USP Class VI <87> & <88>
- FDA Compliant
- Clean room manufactured
- High temperature resistance
- Fungal resistant

Service Temperature

- -55°C to 205°C (-67°F to 400°F)

Specification

- ASTM D 2000 M7GE706 A19 B37 E016 E036 F19

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Clear	Clear
Hardness, Shore A	70+/-5	70
Tensile Strength, psi (MPa)	870 min (6)	1260 (8.7)
Elongation	150% min	580%
Specific Gravity, g/cm ³		1.17



Table 2. A19 - Heat Aging - 70 hrs at 225°C

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+3
Tensile Strength, %	-25 max	-22
Elongation, %	-30 max	-29

Table 3. B37 - Compression Set - 22 hrs at 175°C

Test (Change)	Requirements	Results
Permanent Set, %	30 max	12

Table 4. E016 - IRM 901 Oil Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-4
Tensile Strength, %	-20 max	-3
Elongation, %	-20 max	-6
Volume, %	0 to +15	+4

Table 5. E036 - IRM 903 Oil Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-20
Volume, %	+60 max	+34

Table 6. F19 - Low Temp Brittleness Test - 3 mins at -55°C

Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle