



SPECIALTIES TRADING SERVICES LTD

STS F21-50 Compression Seal

- Expansion Joint Sealing Profile for all finishes, for External and Internal uses.
- FDA Compliant
- Excellent resistance to compression set and tear/abrasion.
- Excellent resistance to many petroleum oils/greases, hydraulic fluids, alcohol, ambient water, silicone greases, Di-ester base lubricants and ethylene-glycol based fluids.
- UV Resistant.
- Multi-directional movement.
- Length: 25 lm.
- Colors: Black and Gray.
- Easy onsite installation.



Profile Code	Joint Width	Total Movement	Surface Width
STS F21-50	50 mm	± 9 mm	50 mm

Cure System:

Sulfur

(Peroxide cured CPDs available with improved physical, chemical, and thermal properties)

Service Temperature:

-30 to 250o F

Specification:

ASTM 2000 M2BG710 A14 B14 EA14 EO14 EO34 Z1 Z2



PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	67
Color		Black
Tensile Strength, psi	1,450	1,780
Ultimate Elongation, %	250	318

HEAT RESISTANCE – A14, ASTM D 573 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+/- 15	+4
Tensile Strength Change, %	+/- 20	+5
Ultimate Elongation Change, %	-40	-28

COMPRESSION SET – B14, ASTM D 325 Method B (22 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	25	22

FLUID RESISTANCE, Water – EA14, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+/- 10	0
Volume Change, %	+/- 15	2

FLUID RESISTANCE –ASTM #1 Oil – EO14, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	-5 to +10	+8
Tensile Strength Change, %	-25	+11
Ultimate Elongation Change, %	-45	-27
Volume Change, %	-10 to +5	-4

FLUID RESISTANCE – IRM 903 Oil, -EO34, ASTM D 471 (70 hrs. @ 73°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	-10 to +5	-4
Tensile Strength Change, %	-45	+3
Ultimate Elongation Change, %	-45	-28
Volume Change, %	0 to +25	+8

- Z1 Low Temperature Resistance ASTM 2137
Non Brittle after 3 min. @ -30o C Pass Pass
- Z2 FDA Status
Compliant to FDA 21CFR Sec 177-2600 Rubber articles intended for repeated use.