

# LFRS Platinum cured silicone tubing



Platinum cured silicone tubing is widely used in pharmaceutical and biopharmaceutical fields, such as liquid transport, filling and packaging, and single use systems during drug production. The qualification, manufacturing and release of LFRS platinum cured silicone tubing meet stringent requirements and pass quality control testing, so that it can provide safe and reliable single use process products for end users in the biopharmaceutical industry.



## Advantages

- ⊙ It can be sterilized by Gamma irradiation/autoclave
- ⊙ Meet FDA 21CFR177.2600, EP3.1.9, USP381
- ⊙ Very low particle release
- ⊙ Smooth inner wall, which provides excellent fluid mobility
- ⊙ Excellent chemical compatibility
- ⊙ All formulations are not of animal origin
- ⊙ Shelf life: 5 years
- ⊙ Non-listed sizes and custom lengths are available by special order

## Typical Applications

- ⊙ Assembly of Disposable System
- ⊙ Preparation of Media
- ⊙ Preparation of Buffer
- ⊙ Assembly of Cell Cultivation Bag

## Technical Parameters

### Physical Properties

Test criteria	Test item	Unit	Outcome
ASTM D2240	Rigidity	Shore A	60
ASTM D412	Tensile Strength	MPa	≥ 6.0
ASTM D412	Elongation at Break	%	≥ 300
ASTM D412	Permanent set at Break	%	≤ 10
ASTM D792	Specific Gravity	g/cm <sup>3</sup>	1.05-1.25
ASTM D624	Tear Strength	KN/m	≥ 15

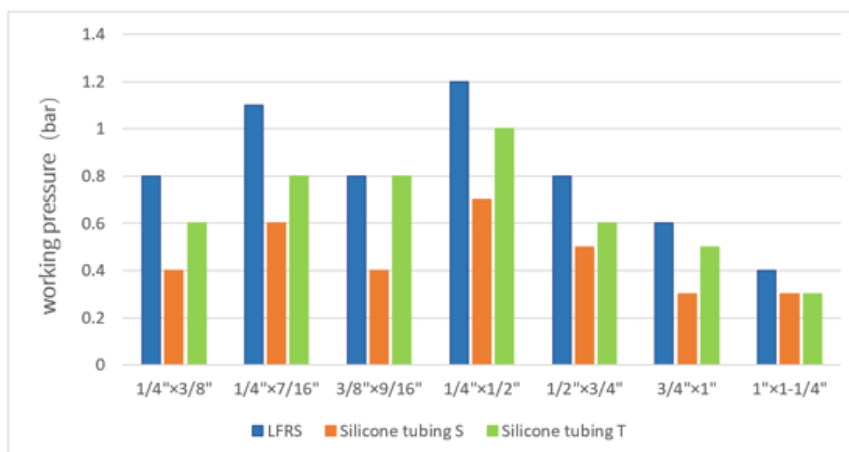
### Biocompatibility

Test criteria	Test item	Test result
ISO10993-4	Hemolysis	Pass
ISO10993-5	Cytotoxicity	Pass
ISO10993-10	Irritation and Sensitization tests	Pass
USP<87>	In vitro biological response	Pass
USP<88>	In vivo biological reaction	Pass

### Sterilization Method

Autoclave Sterilization	121° C/ 30 min
Gamma irradiation sterilization	25- 40 kGy

## Working pressure comparison table



## Ordering Information

### LFRS Platinum cured silicone tubing

Cat. No.	Dimensions	Packaging size
LFRS0301-F	Platinum Cured Silicone Tubing 1/16"(1.6mm)x 3/16"(4.8mm)	15M/roll
LFRS0703-F	Platinum Cured Silicone Tubing 3/32"(2.4mm)x 7/32"(5.6mm)	15M/roll
LFRS0802-F	Platinum Cured Silicone Tubing 1/16"(1.6mm)x 1/4"(6.4mm)	15M/roll
LFRS0804-F	Platinum Cured Silicone Tubing 1/8"(3.2mm)x 1/4"(6.4mm)	15M/roll
LFRS1004-F	Platinum Cured Silicone Tubing 1/8"(3.2mm)x 5/16"(8.0mm)	15M/roll
LFRS1006-F	Platinum Cured Silicone Tubing 3/16"(4.8mm)x 5/16"(8.0mm)	15M/roll
LFRS1206-F	Platinum Cured Silicone Tubing 3/16"(4.8mm) × 3/8"(9.6mm)	15M/roll
LFRS1208-F	Platinum Cured Silicone Tubing 1/4"(6.4mm)x 3/8"(9.6mm)	15M/roll
LFRS1408-F	Platinum Cured Silicone Tubing 1/4"(6.4mm)x 7/16"(11.1mm)	15M/roll
LFRS2012-F	Platinum Cured Silicone Tubing 3/8"(9.6mm)x 5/8"(15.9mm)	15M/roll
LFRS1812-F	Platinum Cured Silicone Tubing 3/8"(9.6mm)x 9/16"(14.4mm)	15M/roll
LFRS1608-F	Platinum Cured Silicone Tubing 1/4"(6.4mm)x 1/2"(12.7mm)	15M/roll
LFRS1610-F	Platinum Cured Silicone Tubing 5/16"(8.0mm)x 1/2"(12.7mm)	15M/roll
LFRS2416-F	Platinum Cured Silicone Tubing 1/2"(12.7mm)x 3/4"(19.1mm)	15M/roll
LFRS2820-F	Platinum Cured Silicone Tubing 5/8"(15.9mm)x 7/8"(22.3mm)	15M/roll
LFRS3224-F	Platinum Cured Silicone Tubing 3/4"(19.1mm)x 1"(25.4mm)	15M/roll
LFRS3624-F	Platinum Cured Silicone Tubing 3/4"(19.1mm)x 1-1/8"(28.6mm)	15M/roll
LFRS4024-F	Platinum Cured Silicone Tubing 3/4"(19.1mm)x 1-1/4"(31.8mm)	15M/roll
LFRS4032-F	Platinum Cured Silicone Tubing 1"(25.4mm)x 1-1/4"(31.8mm)	15M/roll
LFRS4432-F	Platinum Cured Silicone Tubing 1"(25.4mm)x 1-3/8"(35.0mm)	15M/roll
LFRS1108-F	Platinum Cured Silicone Tubing 1/4"(6.4mm) x11/32"(8.8mm)	15M/roll
LFRS1612-F	Platinum Cured Silicone Tubing 3/8"(9.6mm) x 1/2"(12.7mm)	15M/roll
LFRS3832-F	Platinum Cured Silicone Tubing 1"(25.4mm) x 1-3/16"(30.2mm)	15M/roll