

EXTRAFLEX

Mandrel built Platinum Cured Silicone/Polyester Hygienic Hoses with Wire Reinforcement, designed for extreme flexibility.

Manufactured using a platinum cured silicone elastomer which is compositionally compliant with FDA 21 CFR 177.2600 and USP Class VI standards. These hoses are supplied in up to 4M lengths, with a temperature range of -60C to +200C (+220C spot) in standard form; bore sizes available from 1/4"(6.3mm) to 6"(152.4mm). Standard colour translucent. Extraflex hoses are ideally suited for clean industry process/production use.

Construction

The wall construction is made of plies of knitted polyester cloth impregnated with silicone and a stainless steel wire reinforcing helix embedded between the plies. Smooth line bore for clear flow with smooth outer skin of silicone for complete integrity. The Extraflex range of hoses incorporates wire reinforcement at 4 turns per inch, resulting in extreme flexibility and the ability to handle increased operating pressures.

Pressure Range

The Extraflex range of hoses are designed to have a working pressure of 10 bar up to 76mm id and 5 bar on anything higher.

TYPICAL PHYSICAL PROPERTIES OF THE CURED SILICONE RUBBER COMPOUND:

Raw Material:	Platinum cured silicone:
Colour	Translucent
Specific Gravity	1.2
Hardness	60-65°shore 'A' (silicone)
Tensile Strength	10 Mpa (min.) silicone
Elongation at Break	450°(minimum), silicone
Tear Strength	38 kN/m (silicone)

Minimum recommended bend radii:

Hose Bore (mm)	Min C/L bend radius (mm)	Hose Bore (mm)	Min C/L bend radius (mm)
12.0	45	45.0	140
19.0	50	51.0	170
25.4	65	63.0	275
32.0	87	75.0	400
38.0	110	102.0	700

NOTE: - It is the responsibility of the user to determine that the finished product, including fittings, complies with the provisions of FDA 21 CFR 177.2600 and USP Class VI.