



STARSOFT Definitive 74 UV

Definitive is a range of silicone hydrogel materials developed specifically to be lathe cut by manufacturers of specialty soft contact lenses. The oxygen permeabilities of the Definitive range of materials are the highest available to manufacturers of lathe cut hydrogel materials and is achieved with an exclusive blend of fluorosilicone and hydrophilic monomers. Their Dks are significantly higher than conventional hydrogels and therefore provide improved corneal health. The polymer compositions have been optimised to ensure that the Definitive materials can be machined in the same manner as any other hydrogel material. They have similar moduli to comparative water content hydrogel materials and so do not suffer from the mechanical complications associated with other silicone hydrogels. Lenses of excellent optical performance and outstanding on-eye comfort can be produced using the Definitive range of materials. The variety of properties contained within the Definitive range of products make Definitive materials suitable for producing the widest range of lens designs.

Technical information

Material Characteristics:

		Refractive Index	1.375 at 20°
Property	Defenitiv 74 SiH	Dry Refractive Index	1.510 at 20°
Classification (ISO 18369-1:2009)	Filcon V3	Light Transmission (%) @ 380-780nm	99 %
FDA Approved	Yes	Tensile Strength	0.39MPa
USAN	Efrolcon A	Elongation to break	180 %
Ionic or non-ionic	non-ionic	Hardness (Shore D)	84
Oxygen Permeability at 35° C (ISO) X10-11 (cm ² /sec)[mLO ₂ /(ml x mmHg)]	60	Handling tints	Blue
Oxygen Permeability at 35° C (ISO)0.08 ct X10-9 (cm ² /sec)[mLO ₂ /(ml x mmHg)]	75	Modulus (MPa)	0.35
Swell factor	1.63 at 20°	Diameter	12.70 mm
Water Content	74 % at 20° by weight	Thickness	Standard

