

Protectalon

Na Hyaluronate



For Smooth and Confident Surgeries...

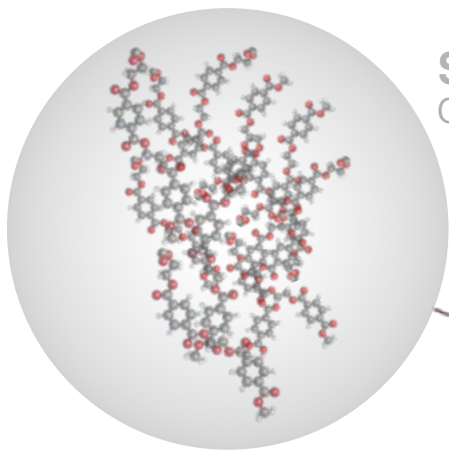
Protectalon

Na Hyaluronate

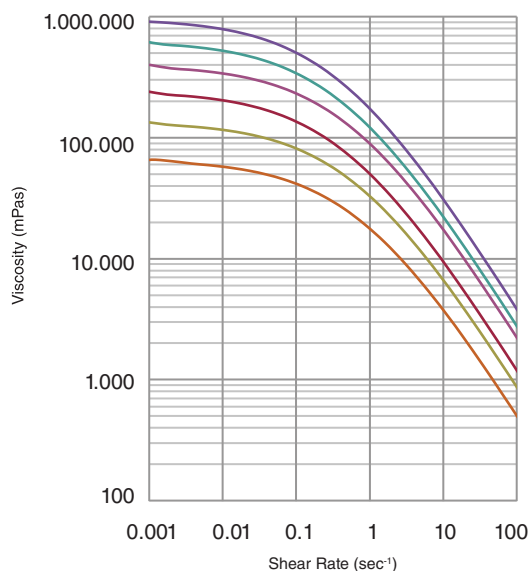
1.0% 1.2% 1.4% 1.6% 1.8% 2.0% 3.0%

General

Structure of Cohesive Protectalons



- Bio-fermented Sodium Hyaluronate Production
- Non-Immunogenic
- Excellent Biocompatibility
- Non-Pyrogenic
- Outstanding Optical Clarity



Protectalon 2.0%
Protectalon 1.8%
Protectalon 1.6%
Protectalon 1.4%
Protectalon 1.2%
Protectalon 1.0%

ZSV of Protectalon 2.0% is 900.000 mPas
ZSV of Protectalon 1.8% is 600.000 mPas
ZSV of Protectalon 1.6% is 400.000 mPas
ZSV of Protectalon 1.4% is 200.000 mPas
ZSV of Protectalon 1.2% is 130.000 mPas
ZSV of Protectalon 1.0% is 60.000 mPas

Rheology Graphic of Cohesive Protectalons

COHESIVE

- Reliable Anterior Chamber Maintenance with exceptional cohesivity
- Easy to inject with high pseudo-plasticity index
- Easy to aspirate with high molecular weight molecules
- 6 options at different Zero Shear Viscosity

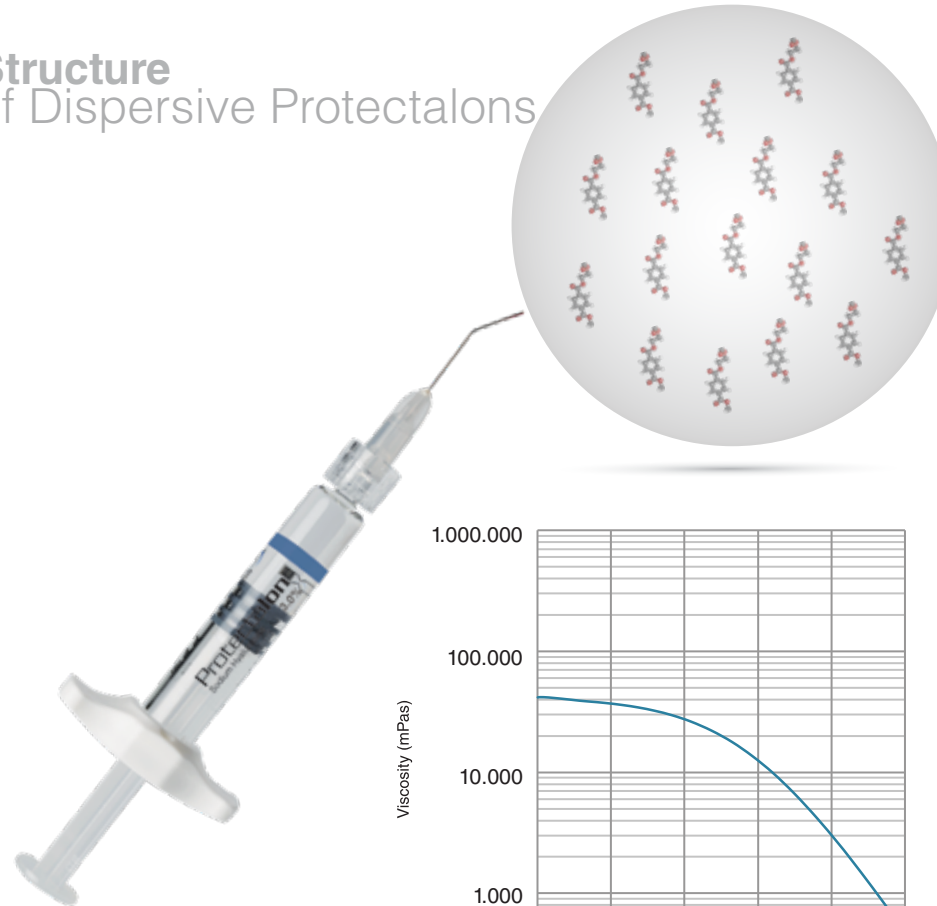
Features

- Double Sterilization
- No Refrigeration Required
- Wide Concentration Range
- 1.1 ml High Filling Volume
- Latex Free

DISPERSIVE

- ▶ Remarkable security and high protection
- ▶ Superior endothelial cell protection
- ▶ Dispersive character effectively cushions tissue from damage during fragmentation of the cataract lens and implantation of the IOL
- ▶ Better retention within the eye during phaco at high flow rates

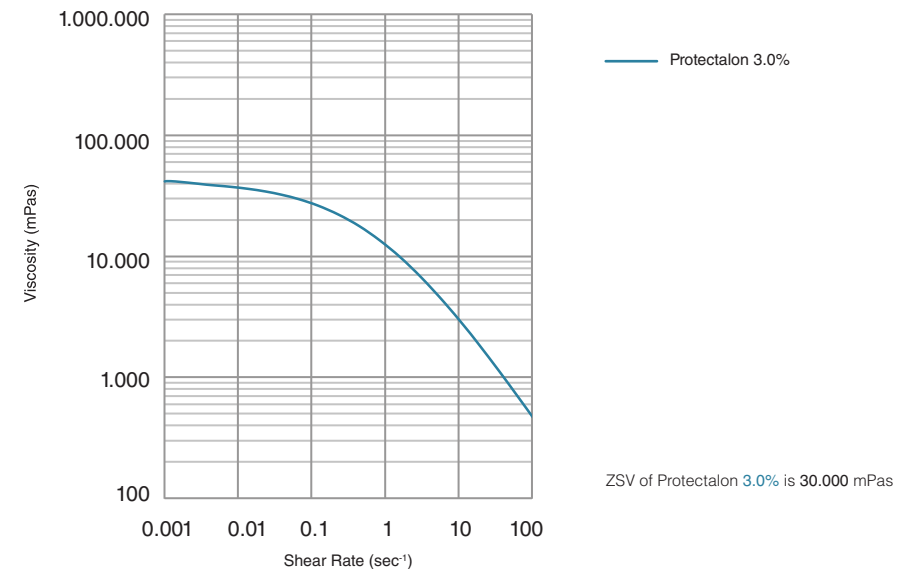
Structure of Dispersive Protectalons



Protectalons

Na Hyaluronate

1.0% 1.2% 1.4% 1.6% 1.8% 2.0% 3.0%



Rheology Graphic of Dispersive Protectalons

Technical Features

Product	Protectalon 1.0%	Protectalon 1.2%	Protectalon 1.4%	Protectalon 1.6%	Protectalon 1.8%	Protectalon 2.0%	Protectalon 3.0%
Concentration	10 mg/ml	12 mg/ml	14 mg/ml	16 mg/ml	18 mg/ml	20 mg/ml	30 mg/ml
Molecular Weight	Appr. 3.0M Da	Appr. 3.0M Da	Appr. 3.0M Da	Appr. 3.0M Da	Appr. 3.0M Da	Appr. 3.0M Da	Appr. 750000 Da.
Zero Shear Viscosity	60.000 mPas	130.000 mPas	200.000 mPas	400.000 mPas	600.000 mPas	900.000 mPas	30.000 mPas
Osmolality	300 - 350 mOsm/kg	300 - 350 mOsm/kg	300 - 350 mOsm/kg	300 - 350 mOsm/kg	300 - 350 mOsm/kg	300 - 350 mOsm/kg	300 - 350 mOsm/kg
Storage Condition	2-25° C	2-25° C	2-25° C	2-25° C	2-25° C	2-25° C	2-25° C
Pseudoplasticity Index	65	100	140	190	220	240	7
pH Value	6.8 – 7.6	6.8 – 7.6	6.8 – 7.6	6.8 – 7.6	6.8 – 7.6	6.8 – 7.6	6.8 – 7.6
Characteristic	Cohesive	Cohesive	Cohesive	Cohesive	Cohesive	Cohesive	Dispersive
Volume	1,1 ml	1,1 ml	1,1 ml	1,1 ml	1,1 ml	1,1 ml	1,1 ml
Origin	Biofermented	Biofermented	Biofermented	Biofermented	Biofermented	Biofermented	Biofermented
Cannula	27G	27G	27G	27G	27G	27G	25G
Sterilization Method	Steam & ETO	Steam & ETO	Steam & ETO	Steam & ETO	Steam & ETO	Steam & ETO	Steam & ETO
							