

# Protectalon

Na Hyaluronate



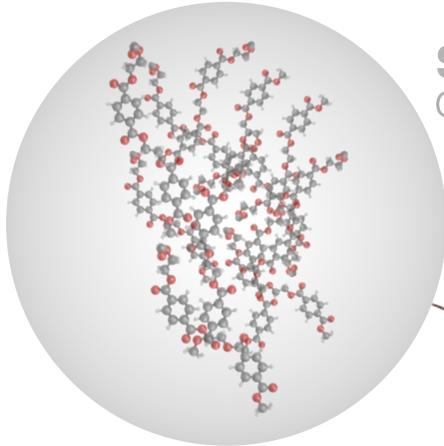
For Smooth and Confident Surgeries...

# Protectalon

Na Hyaluronate

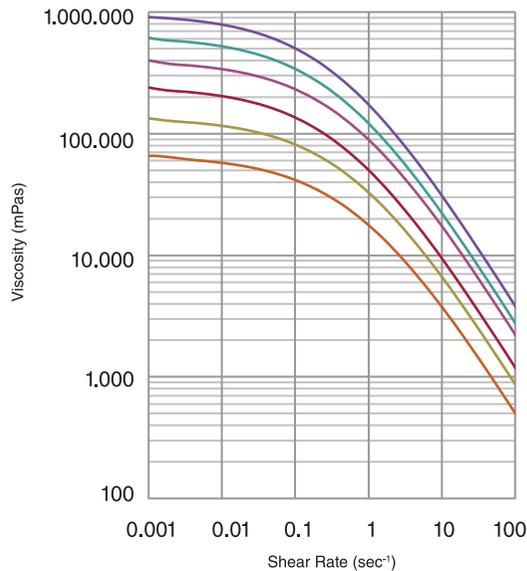
%1.0 %1.2 %1.4 %1.6 %1.8 %2.0 %3.0

## 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

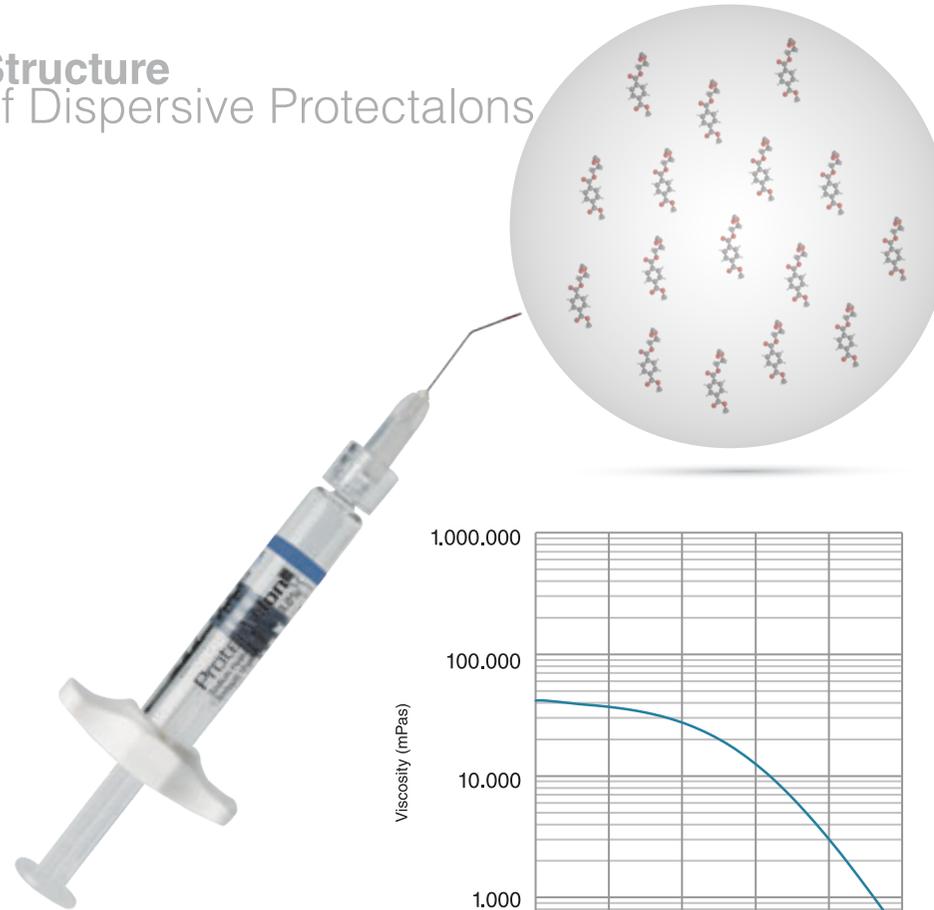
# Features

- 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
- ▶ Effective dispersive character 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

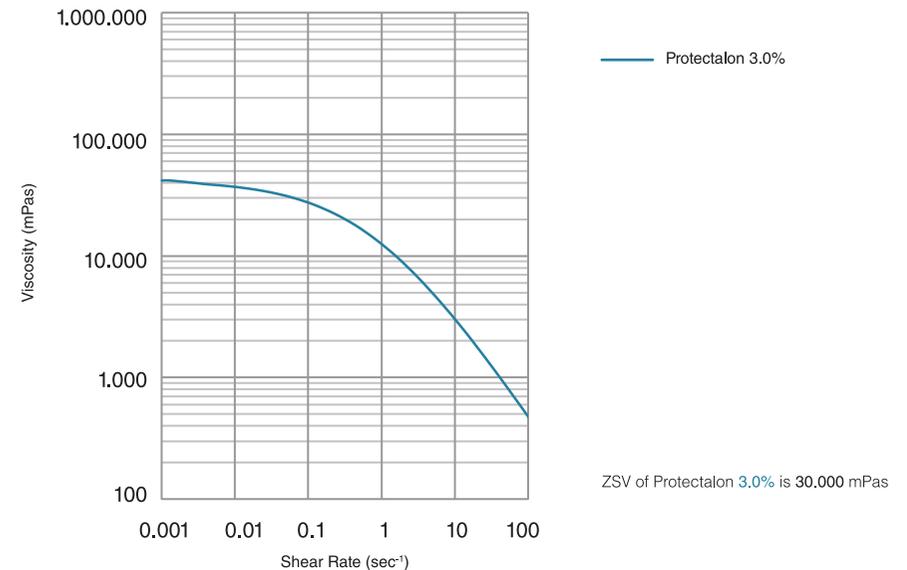
## Structure of Dispersive Protectalons



# Protectalon

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
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
							