

ALSAVISC
Sodium Hyaluronate Viscoelastics

The Great Harmony Entire Surgery



ALSANZA
Medizintechnik und Pharma GmbH

Sodium Hyaluronate

High-Tech & Pure

Sodium Hyaluronate in ALSAVISC is non-animal-based and obtained by bio-fermentation method.

Long & Monotype HA Chains¹

Homogeneous character of HA chains provides numerous benefits;

- Maintains elasticity to better shock absorption
- Prevents molecular apart and delamination
- Provides reversable viscosity for different shear stresses



Homogeneous character

ALSAVISC

Bio-fermentation

Long & Monotype HA chains

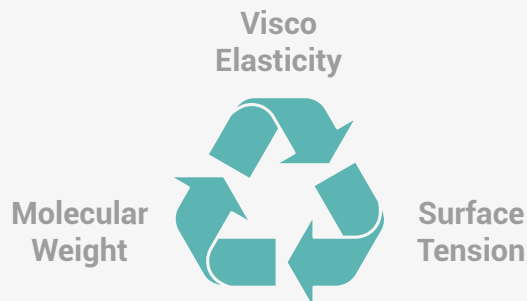


Non-homogeneous character

Other Bio-fermentation Methods

Wide molecular weight differences

Great Harmony



Dispersive Sodium Hyaluronate¹

Diffuse
3.0%

- **Molecular Weight: 75.000 Daltons**
- Low surface tension provides surface affinity for endothelium protection
- Higher coating ability for safe procedures

Coating & Protection

Cohesive Sodium Hyaluronate¹

Cool	Deep
1.4%	1.8%
1.6%	

- **Molecular Weight: 3.000.000 Daltons**
- Higher molecular weight & long HA chains provide easy aspirations
- Shows high elastic behaviour that enables better stress absorption
- Reversible viscosity with shear thinning provides smooth instrument movements and injections

Space Maintaining & Shock Stress Absorption

Cohesive
Sodium Hyaluronate
Cool Deep

		Rheology	Concentration	Molecular Weight	Zero Shear Viscosity	Volume	Origin	Cannula	Osmolality	pH Value	Storage Condition
Cool	Alsavisc 1.4%	Cohesive	14 mg/ml	3 MDa	200,000 mPas	1,1 ml	Biofermented	27 G	300-350 mOsm/kg	6.8-7.6	2-25 °C
	Alsavisc 1.6%	Cohesive	16 mg/ml	3 MDa	400,000 mPas	1,1 ml	Biofermented	27 G	300-350 mOsm/kg	6.8-7.6	2-25 °C
Deep	Alsavisc 1.8%	Cohesive	18 mg/ml	3 MDa	600,000 mPas	1,1 ml	Biofermented	27 G	300-350 mOsm/kg	6.8-7.6	2-25 °C

Table taken from reference 2

Dispersive
Sodium Hyaluronate
Diffuse

		Rheology	Concentration	Molecular Weight	Zero Shear Viscosity	Volume	Origin	Cannula	Osmolality	pH Value	Storage Condition
Diffuse	Alsavisc 3.0%	Dispersive	30 mg/ml	0.75 MDa	30,000 mPas	1,1 ml	Biofermented	25 G	300-350 mOsm/kg	6.8-7.6	2-25 °C

Table taken from reference 2

References:
 1.Review of Ophtalmology Understanding and Using the Full Spectrum of OVDs Devgan, MD, FACS, Sun Valley, Calif. PUBLISHED 2009
 2.Data on file.

