

ISO 9001:2000 Certified

CE1023 Certified

CeraEye®

Synthetic Hydroxyapatite Orbital Implant

Transformation of Appearance



Before



After

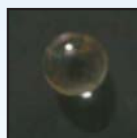
CeraEye® Orbital Implant provide superior Cosmesis in addition to volume replacement, Prosthesis stability, comfort and motility

Availability

Size	From 12 mm to 22 mm
Types	Spherical and Conoid* for Evisceration and Enucleation
*Available in both plain and drilled holes models	

Packing – Gamma Ray Sterilized Container

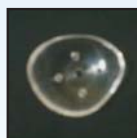
Following ancillaries are also supplied on request



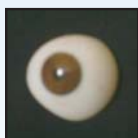
Sizer



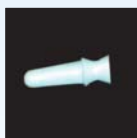
Corneal Protector



Conformer



Artificial Eye



Suction Cup

IFGL BIO CERAMICS LIMITED

CeraEye®

Synthetic Hydroxyapatite Orbital Implant

Authorised Dealer

IFGL BIO CERAMICS LIMITED

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Phone : +91 33 2248 2411, Extn. : 114 / 161, Fax : +91 33 2243 0886

E-mail : ifglbioho@bajoria.in/ifglbiomktg@bajoria.in

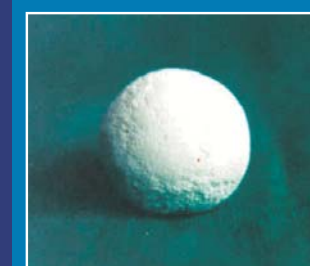
Visit us at : www.ifglbioceramics.com

CeraEye®

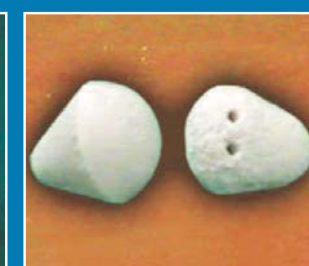
SYNTHETIC HYDROXYAPATITE ORBITAL IMPLANT

for

OCULOPLASTY AND ORBITAL RECONSTRUCTION



Spherical



Conoid - with drilled holes



Conoid

Manufactured as per know how developed by

CENTRAL GLASS AND CERAMIC RESEARCH INSTITUTE, KOLKATA

a constituent laboratory of

INDIAN COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH,

under processes having

GMP, ISO and CE Certifications

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Synthetic Hydroxyapatite Orbital Implant

Salient Features

- ▶ Inert and Bio compatible
- ▶ Biochemically Stable
- ▶ Light Weight
- ▶ In Conoid and Spherical Designs
- ▶ Smaller than Eye Ball
- ▶ Centered within Muscle Cone
- ▶ Anchored to Orbital Tissue
- ▶ Stability and Integration in Eye Socket
- ▶ Resilient
- ▶ Much more increased Motility
- ▶ Operational Convenience
- ▶ Direct Integration with Prosthesis

Physical Properties

Composition	Synthetic Hydroxyapatite
Formula	$Ca_{10}(PO_4)_6(OH)_2$
Bulk Density	0.6 - 0.7 gms/cc
Specific Weight	< 2 gms
Porosity	75%
Pore size	100 - 300 μ m
Unit Volume	3 - 4 cc
Flexural Strength for solid HAP	> 25 MPa
Compressive Strength for solid HAP	> 1-2 MPa
Wear Factor under 10 N Load and Sliding Speed of 2.5 mm/s	$1.3 \pm 0.4 \times 10^{-5} \text{ mm}^3/\text{N-m}$

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Indications

- ▶ Anterior Staphyloma
- ▶ Endophthalmitis
- ▶ Prephthisical/Phthisical Eye
- ▶ Injury
- ▶ Painful Blind Eye
 - Bullous Keratopathy
 - Absolute Glaucoma
 - Neovascular Glaucoma

Contra-Indications

- ▶ Panophthalmitis
- ▶ Intraocular Malignancies
- ▶ Severely traumatised ocular tissue
- ▶ Children below 5 years of age

Clinical References

- ▶ Fabrication and Characterization of Porous Hydroxyapatite Ocular Implant followed by an in vivo study in dogs
Bull Mater, Sci, Vol 27, No 2, April 2004, Page 133-140, Indian Academy of Science
- ▶ Synthetic Hydroxyapatite based Integrated Orbital Implant - A Human Pilot Trial
IJO, 2005, Vol 53, Issue 4, Page 235-241
- ▶ Development of Bio- Active Integrated Ocular Implant for an ophthalmic human Patients
Trends Biomater Artif.Organs.Vol 16 (1) PP No-1-4 (2002)

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Evisceration

- ▶ 360° Peritomy
- ▶ Corneal Button Excised
- ▶ Anterior Scleral releasing incision
- ▶ Posterior Sclerotomies
- ▶ Implant within Scleral Shell
- ▶ Closure in 3 layers



Enucleation

- ▶ 360° Peritomy
- ▶ Recti Muscles isolated
- ▶ Eye ball removed
- ▶ Implant placed posterior to Tenon's capsule
- ▶ Recti resutured
- ▶ Closure in 3 layers



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