ADVANCE MEDICAL PRODUCTS THROUGH RESEARCH

CE 1023 &
ISO 9001:2000 Certified

CeraEye®

Synthetic Hydroxyapatite Orbital Implant

ASSISTING EYE SURGEONS IN ORBITAL RECONSTRUCTION

[IFGL BIO CERAMICS LIMITED]

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HYDROXYAPATITE ORBITAL IMPLANT

IFGL BIO CERAMICS LIMITED present the most preferred Orbital Implant for excellent integration, full eye movement and natural eye finish. Orbital implant is based on synthetic porous Hydroxyapatite material and is manufactured by advanced technology using sophisticated equipments.

ADVANTAGES OF HYDROXYAPATITE MATERIAL

BIO COMPATIBLE : Hydroxyapatite is a bio compatible material i.e. a material which fits in the human body without any reaction or rejection and hence is an ideal prosthetic material.

BIO ACTIVE : Hydroxyapatite is bio active which means theat this material reacts in a positive manner to form bonds with local cells. Because of this the adjacent tissues integrate with the orbital implant and provide stability and motion to the orbital implant.

SYNTHETICALLY PROCESSED : Hydroxyapatite is manufactured by a synthetic process which develops a highly porous, fully inter connected bio compatible ceramic matrix which is similar in structure to natural bone.

SUPERIORITY OF POROUS HYDROXYAPATITE ORBITAL IMPLANT

- Made of Bio Compatible and Bio Active material
- Provide good eye movement
- Have very low exposure problem
- Extremely light weight
- Porous structure for vascularisation

CeraEye® Orbital implant design is engineered to be 70% porous with pore sizes ranging from 100 to 300 microns. The result is within six months of surgery, tissues and blood vessels encompass the orbital implant and as a result this move freely providing good movement. The structure of the porous model permits fibro vascular in growth in the implant, which facilitates stability within the eye socket.

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SALIENT FEATURES OF CERAEYE® ORBITAL IMPLANT

- Inert and Bio Compatible
- Bio Chemically stable
- Light weight
- Available in both conoid and spherical designs
- Smaller than eye ball
- Centered within muscle cone
- Integration to eo muscle
- Anchored to orbital tissue
- Stability and integration in eye socket
- Resilient
- Much more increased motility
- Operational convenience
- Direct integration with prosthesis

TECHNOLOGY SUPPORT

CeraEye® Orbital Implants are manufactured as per technology developed by Central Glass & Ceramic Research Institute, Kolkata, India, a constituent laboratory of Council of Scientific Industrial Research (CSIR) India, with support of Society of Biomedical Technology (SBMT) promoted by Defence Research and Development Organisation (DRDO) and Department of Science & Technology (DST), Government of India. CeraEye® Orbital Implants are also backed by in house R & D and stringent quality controls.

EYE HOSPITALS ALREADY USING CERAEYE® IMPLANT IN INDIA

- Anadalok Eye Hospital, Kolkata
- Aravind Eye Hospital, Madurai
- Disha Eye Hospital & Research Centre, Barrackpore, West Bengal
- Disha Eye Hospital & Research Centre, Sheoraphully, West Bengal
- Dr. R. P. Centre for Ophthalmology Sciences, AIIMS, New Delhi
- Eye Care & Research Centre, Kolkata
- Peerless Hospital, Kolkata
- Regional Institute of Opthalmology, Medical College, Kolkata
- R. G. Kar Medical College, Kolkata
- Rotary Narayan Nethralaya, Kolkata
- Sankara Nethralaya, Chennai
- Sri Shankaradeva Nethralaya, Guwahati
- Sir Ganga Ram Hospital, New Delhi
- Susrut Eye Foundation, Kolkata
- SSKM Hospital, Kolkata
- Wockhardt Hospital, Kolkata

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CERAEYE® ORBITAL IMPLANT

14mm, 16mm, 18mm & 20mm in spherical/conoid designs. The conoid design is available both in plain and drilled hole models for evisceration/ enucleation purpose. Implant is supplied in special air tight plastic container after Gamma Ray sterilsation.

Spherical

Conoid - With Drilled Holes

Conoid - Plain

Properties	Values
Bulk Density	0.61 g/c.c.
Total Weight	< 2g
Porosity	75%
Pore Size	30 – 250 µm
Compressive Strength	1 – 2 MPa
Wear Factor under 10 N Load and Speed of 2.5 mm/s	$1.3 \pm 0.4 \times 10^{-5} mm^3/N\text{-}m$

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