MICROSPHERE
(thermally expandable microcapsule)

Features of KUREHA Microsphere
KUREHA Microsphere (MS) is a thermally expandable microcapsule. It consists of a polymer shell encapsulating a gas blowing agent (mainly aliphatic hydrocarbons). When heated, the gas in the shell expands increasing pressure while the thermoplastic shell softens, resulting in a dramatic increase in volume. Upon cooling a hollow and extremely light plastic sphere remains. Cell size increases by 3-5 times and the volume of the microcapsule increases by 50-100 times.

Typical Applications
- Automotive headliners, undercoatings, sealants
- Light weight Paper & Sheet, Paints, Caulks
- Embossed / 3D Ink & Paint for Graphic arts
- Shoe soles, heat activated adhesives,

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