

## 50830 - 50845 Mother of Pearl

Mother of pearl, is an organic-inorganic composite material produced by some mollusks as an inner shell layer; it is also what makes up pearls. It is very strong, resilient, and iridescent.

### Chemical Analysis:

Parameter	Unit	Value
CaO	weight-%	54.1
Na <sub>2</sub> O	weight-%	0.44
MgO	weight-%	0.39
Fe <sub>2</sub> O <sub>3</sub>	weight-%	0.18
P <sub>2</sub> O <sub>5</sub>	weight-%	0.10
Al <sub>2</sub> O <sub>3</sub>	weight-%	< 0.01
MnO	weight-%	< 0.005
K <sub>2</sub> O	weight-%	< 0.01
TiO <sub>2</sub>	weight-%	< 0.01
Strontium	weight-%	0.10
Lead	mg/kg	< 5
Chrom	mg/kg	< 5
Copper	mg/kg	< 5
Nickel	mg/kg	< 5
Zinc	mg/kg	< 5

### Evaluation:

Mother of Pearl consists of calcium carbonate with very small amounts of other constituents. It only contains insignificant amounts of heavy metals which are not measurable by X-ray fluorescence spectrometry.