



The best additive for no-bake molds and cores and resin coated shell sand proves itself time and again!!!

Chesapeake Specialty Products **SphereOX®** in multiple size ranges to improve the finish of your castings and eliminate pin hole and veining type casting defects.

Nothing works better at reducing veining and pinholes than **SphereOX®**! It's logical... "Round" **SphereOX®** is the ideal additive to minimize the use of costly gas generating resin binder systems while maintaining mold strength!

SphereOX Fine

| <u>Screen Size</u> | <u>Typical % Retained on</u> |
|--------------------|------------------------------|
| 40 | <1% |
| 100 | >10% |
| 140 | >15% |
| 200 | >40% |
| 270 | >50% |



100-x magnification

Typical AFS Size 165-185

SphereOX® is higher in iron content than natural iron oxides so you use less of it. Also, because it is spherical, it has less surface area and thus consumes less binder. Less binder means less cost and less gas created in the mold by the binder. Less gas means less surface defects! And unlike flaky natural oxides which trap gases at the mold/molten steel interface, **SphereOX®** enhances permeability reducing casting defects.

SphereOX®

- Reduces casting defects
- Reduces total cost
- Requires less resin binder
- Increases mold tensile strength
- Has excellent flow properties
- Eliminate need for Specialty Sand
- Enhances mold permeability
- Reduces blow tube and vent plugging
- No dust....improves work environment



Typical Chemistry

| <u>Element</u> | <u>FE</u> | <u>C</u> | <u>MN</u> | <u>P</u> | <u>S</u> | <u>Si</u> |
|----------------|-----------|----------|-----------|----------|----------|-----------|
| Weight | 73+ | 0.13 | 0.47 | 0.012 | 0.005 | 0.11 |