

SUPERIOR OLIVINE



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Established in 2008, Eryas Olivine, consists of a team with decades of experience in Olivine mining

Plant Investments have been focused on Quality Production and Customer Satisfaction that have lead to a strong presence in the domestic market and rapid growth in Exports.

Our Mine and Processing Plant are located very close to Iskenderun Ports making it well suited for export operations. Plant is composed of three different units with a total of 2000 m2 closed and 800 m2 semi closed area.



SUPERIOR OLIVINE



All crushing and sieving units are state of the art employing high technology and large capacity enabling us to supply customers with on-time shipments while keeping the required specifications.



Our facility has the capacity of producing 250.000 metric tons of olivine material per year.



MINE ZONE

Eryas mine zone contains A Class quality olivine with visible-estimated deposit reserve of 250.000.000. metric tons.

Technical
Specifications of
Eryas Olivine

Characteristic

Synonyms	Chrysolite, Peridot
Colour	Greenish grey
Specific Gravity	3,3 g/cm ³
Grain Shape	Angular
Hardness	6,5-7 Moh's scale
Index of Reaction	1,63 - 1,69
Velocity of Sound	Approx. 7200 m/s
Elastic Moduli	Approx. 140 GPa
Melting Point	1750 - 1800 °C
Initial Sintering	1450 °C
pH	8,9 - 9,5
Loss on Ignition	% 1,1 - 1,9
Specific Heat	0,95 kJ/kg°C
Linear Thermal	1,1% up to 1200 °C
Humidity	%0,5 max

Chemical Structure (%)

MgO	46 - 49
SiO ₂	41 - 43
Fe ₂ O ₃	7,2 - 9,5
Al ₂ O ₃	0,5
Cr ₂ O ₃	0,3
NiO	0,3
MnO	0,1
CaO	0,05

Mineralogical Structure

Fosterite (Mg ₂ SiO ₄)	~95%
Fayalite (Fe ₂ SiO ₄)	~5%



PRODUCT RANGE

EBT Tap Hole Filler Sand

Slag Conditioner

EBT Tap Hole Filling Sand

STANDART SIZES

1-5MM - 2-6 MM

2-5MM - 3-8 MM



Eryas Olivine, with over %99 free opening success rate, high magnesium and low LOI value we offer you one less thing to worry about EAF tappings. Any kind of size choice and grain size distribution is available in order to supply the best possible service.

Slag Conditioner

Eryas Olivine, is a an excellent additive to pellet and sinter production by means of mixing to the Iron ore. Also, for the blast furnaces, olivine performs better than dolomite/serpertine in both economical and quality perpectives. (Direct addition to the slag as lumps)



Slag Conditioner

Tundish Backing Sand
Foundry Sand

Why Olivine over Dolomite/Serpentine?

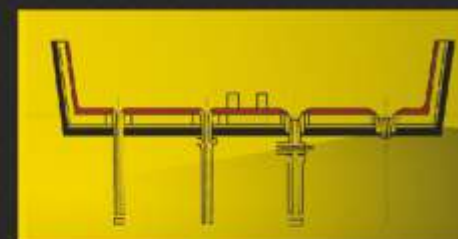
By using olivine instead of dolomite or serpentine

STANDART SIZES

For Sinter applications: 0 – 80 mm
For Blast Furnace applications: 5 – 35 mm
For Steelworks applications: 35 – 60 mm

- Sintered material increases up to %7 and fuel consumption decreases to %14.
- CO₂ release significantly decreases.
- Silicosis is never an option, as it contains no free silica content.
- Less raw material requirement because of its higher MgO content than dolomite and serpentine.
- Sinter temprature requirement decreases 100 oC /212 oF, thus coke consumption decreases.
- Lesser slag acquired.
- For the evacuation of CO₂ at sinter tempratures get shortened %15 when used olivine.

Tundish Backing Sand



Eryas Olivine is also widely used as backing material between wall and coating layers of tundishes. Olivine protects the walls of tundishes on account of it's high melting point (1760-1800 oC).

Standart grain sizes; 0 – 2 mm / 1 – 3 mm

Foundry Sand

Eryas Olivine foundry sand shows excellent performance for iron casting (gray pig iron, nodular cast iron, malleable cast iron) and pretty good performance for noniron castings. Especially if the surface smoothness is important like manganese castings Olivine is the absolute solution.

Sintering point 1450 °C

Meliting point 1760 °C

- Because of it's alkaline characteristic, it performs excellent especially for manganese castings.
- As olivine doesn't react with steel, provides smoother surfaces.
- Reusage rate is higher than silica sand.
- Environment friendly.
- Because of it's silica content is combined, it doesn't cause silicosis.
- Resistant to thermal shocks.
- More economic in compasion to Zircon and Chromite sands.

STANDART SIZES

AFS 40-45 - AFS 60-65
AFS 50-55 - AFS 120



Sandblasting

(Nozzle) Sand

Eryas Olivine, is used as sandblasting material for blasting operations. As the hardness of the sand is 6,5-7 (Mohs) and the characteristics such as it's angular shape, make this material attractive in sandblasting market.

The benefits of Eryas Olivine usage for sandblasting;

- As it doesn't contain chloride, you will never experience corroison and cohesion problems.
- As the iron in it's content is Fe2O4 it never get into chemical reaction with the oxygen in air and water. That's why there will not be any oxidation which will allow for more longlived paintings.
- As it doesn't contain any free silica, it is never a cause for silicosis disease. The usage of materials containing free silica such as quartz sand is prohibited in many countries (Turkey, England, Netherland, Sweeden, Norway).



STANDART SIZES

0,600-1,5 MM 1-3MM
1-2 MM

WHAT WE DO TO SERVE THE BEST MATERIAL POSSIBLE



All the bulk, train and container stuffing processes at ports are supervised by a Professional company.



We get samples from each shipment both during the production and at ports before shipment.



All the trucks are loaded indoor both at the factory and at ports in order to avoid moisture.



The samples taken from each shipment are analyzed both chemically and in grain size distribution.



In the mine spot, all the dunites are constantly controlled by a team in order to keep quality stable in the final product.



We always use the new crushers, screens, conveyors to avoid breakdowns in equipment and accordingly missing the dates promised to our customers.



EXPORT REFERENCES



 1. ALBANIA	 10. COSTA RICA	 19. INDONESIA	 28. MONTENEGRO	 37. SAUDI ARABIA	 45. TAIWAN
 2. ALGERIA	 11. CZECH REPUBLIC	 20. IRAN	 29. MOROCCO	 38. SINGAPORE	 46. T.R.N.C.
 3. ARGENTINA	 12. EGYPT	 21. IRAQ	 30. NETHERLANDS	 39. SLOVAKIA	 47. TURKMENISTAN
 4. AZERBAIJAN	 13. EL SALVADOR	 22. ITALY	 31. NIGERIA	 40. SLOVENIA	 48. UAE
 5. BAHRAIN	 14. FINLAND	 23. JORDAN	 32. OMAN	 41. SOUTH AFRICA	 49. UKRAINE
 6. BOLIVIA	 15. FRANCE	 24. KUWAIT	 33. PERU	 42. SUDAN	 50. UK
 7. CANADA	 16. GERMANY	 25. LIBYA	 34. PORTUGAL	 43. SWEDEN	 51. USA
 8. CHILE	 17. GREECE	 26. MALAYSIA	 35. QATAR	 44. SYRIA	 52. VENEZUELA
 9. COLOMBIA	 18. INDIA	 27. MEXICO	 36. RUSSIA		

Countries are in alphabetical order





QUALITY PICK FOR REFRACTORY APPLICATIONS