



**CHEMKRAFT
OLIVIN
PRODUCTS**



EBT FILLER SAND

General Features

Easy opening tap hole. Opening ratio 99% Sinter-Free

High MgO content up to 51%

High melting point and refractoriness up to 1760°C

Improves the fluidity of the molten metal Contribute the clean steel casting



GRAIN SIZES (MM)* :

1-5 | 3-6

2-5 | 3-7

2-6 | 3-8

2-7 | 4-8

2-8 | 4-9

***CAN BE PRODUCED IN DIFFERENT SIZES & PACKAGING TYPES**

Adab Business Center Semnan Industrial Zone Iran

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TUNDISH SUPPORT SAND

General Features

IDEAL REFRACTORY MATERIAL FOR TUNDISH COATING BETWEEN INNER AND OUTER LAYERS

HIGH RESISTANCE FOR HIGH TEMPERATURES AND THERMAL SHOCKS

HIGH THERMAL INSULATION CAPACITY AND LOW THERMAL EXPANSION

PROTECT THE LAYERS OF THE TUNDISH COATING AND REDUCES THE MAINTENANCE AND REPAIR COSTS

PREVENT THE MECHANICAL PROBLEMS WITH LOW WATER ABSORPTION <2%

EASIER DISASSEMBLY OF THE TUNDISH PLATES



Grain sizes (mm)* :

0-1

0-3

1-3

***Can be produced in different sizes & packaging types**

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FOUNDRY SAND

General Features

Sinter point over 1350°C

Improving surface finish especially in manganese steel casting.

Reduces the surface grinding costs

High thermal shock resistance ,low thermal expansion

Disallow reaction with steel and penetration of molten metal.

High quality clean casting

Improve the bonding with clay usage, reduces the amount of requirement bentonite

Alkaline characteristic

Provides gas permeability and vapour outlet High reusage ratio

Environment friendly.No free silica

Economical solution in comparison with zircon and chromite



Grain sizes (mm)* :

AFS 30-35

AFS 40-45

AFS 50-55

AFS 60-65

AFS 70-75

AFS 80-85

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REFRACTORY SAND

General Features

Natural refractory material over 1350°C High MgO content up to 51%

High melting point and refractoriness up to 1760°C

High thermal shock resistance Low thermal expansion

High mechanical and thermal performance Low impurities and LOI <2%

Low moisture and water absorption <1%



Grain sizes (mm)* :

1-5 | 3-6

2-5 | 3-7

2-6 | 3-8

2-7 | 4-8

2-8 | 4-9

***Can be produced in different sizes & packaging types**

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OLIVINE AS SLAG CONDITIONER

GENERAL FEATURES

FOR PRODUCTION SINTER AND PELLET REDUCES THE SLAG VISCOSITY

HIGH MgO CONTENT, ABSORBS PHOSPHORUS AND AND SULPHUR AND REMOVE FROM THE MOLTEN METAL

BETTER ALKALINITY AND UIDITY FOR THE SLAG AND KEEPS ITS UIDITY

REDUCES THE SINTER TEMPERATURE DOWN BELOW APPROXIMATELY 100°C

COKE CONSUMPTION REDUCES

MORE PRODUCTIVE THAN UORSPAR <2%

HARDER SINTER PRODUCTS ARE OBTAINED. NO NEED TO GIVE MIXTURE BACK TO SINTER <1%

LESS FUEL CONSUMPTION CAUSES LESS AIR/SINTER AMOUNT REQUIRES.

LESS RAW MATERIAL NEEDS <1% LESS SLAG OBTAINED

FUEL CONSUMPTION IN THE FURNACE DOWN BELOW OVER 7%

ADVANTAGE IN BURDEN PERMEABILITY AND GAS-SOLID CONTACT

LESS DUST LOST

INCREASE CO EVOLUTION AND CONTROLS Si AND Mn REDUCTION ARE MORE PRECISE



GRAIN SIZES (MM)* :

0-3 | 0-4

10-30 | 10-40

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OLIVINE AS ABRASIVE SAND

GENERAL FEATURES

**HARDNESS 6,50 – 7,50 (Mohs) ANGULAR GRAIN
STRUCTURE**

IDEAL ABRASIVE WITH ITS HARDNESS AND ANGULAR SHAPE

**NO CHLORIDE CONTENT. PREVENT CORROSIONS AND
COHESIONS**

**NO OXIDATION. Fe_2SO_4 IN STRUCTURE DOESN'T REACT
WITH OXYGEN INSIDE WATER AND AIR**

**PROVIDES PAINTING LIFE AFTER SURFACE CLEANING NO FREE
SILICA. DOESN'T CAUSE SILICOSIS.**

ENVIRONMENT FRIENDLY

**IMPROVES THE SURFACE CLEANING VELOCITY AND SAVINGS
ON TIME**

HIGH EFFICIENCY OF SURFACE CLEANING



Grain sizes (mm)* :

1-5 | 3-6

2-5 | 3-7

2-6 | 3-8

2-7 | 4-8

2-8 | 4-9

***Can be produced in different sizes & packaging types**

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TECHNICAL SPECS

CHEMICAL ANALYSIS

| | WT % |
|---------------------------------|--------------|
| MgO: | 46,00 -51,00 |
| SiO2: | 39 - 42 |
| FeO: | 6,90 – 8,75 |
| Others (Al, Cr, Ni, Mn Oxides): | <2 |
| Loss On Ignition (LOI)*: | <1.9 |
| Conductivity in Water: | <25 mS / m |
| Chlorine in water: | <0,0025% |
| Relative Humidity (%): | <0,50 |

*1000 Degrees Centigrade, 30 min

Mineralogical & Physical Properties

| | |
|--------------------|---------------------------------|
| Synonyms: | Dunite |
| Colour: | Pale Green |
| Grain Shape: | Sharp, angular |
| Specific Gravity: | 3.3 g / cm ³ |
| Bulk Density: | 1,45 – 1,75 g / cm ³ |
| Hardness: | 6-7 Moh's scale |
| Melting point: | 1760 Deg. Centigrade |
| Initial Sintering: | 1450 Deg. Centigrade |
| PH: | 8.9 – 9.5 |

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