



Premier Quality Refractory



ABOUT DFP INDIA

- Active in India since last **12 years**
- **Renowned regular customers**
- **Pioneer in new technology**
and new products
- **1st company in the world** to start
neutral lining and liquid sintering for Induction
furnace
- DFP has come up with some more products
which **can reduce plant losses**

HIGH PERFORMANCE SELF FLOWING COIL GROUT



- DFP has supplied coil grout for Induction furnaces from 50 kgs to 80 Ton
- DFP's Coil grout "Doricast RC 1750 and Doriflow MC 1750" has been approved by all major furnace manufacturers
- DFP's Coil grout reduces downtime of furnace and increases safety
- DFP grout has higher amount of Alumina-95%, lowest Fe_2O_3 -0.4% and CaO -3.4% Grout is made from high purity corundum
- DFP grout has service temperature of 1750deg cent and CCS 200 N/mm² at 1750 deg cent
- DFP grout has lower PLC (Permanent Linear Change) +0.4% at 1600 deg cent

LADLE LINING MATERIAL

- DFP has supplied ladle lining material for ladles of capacities from 50 kgs to 50 Ton
- DFP's ladle lining refractory Cements has changed the industry's practice of ladle making in CI, SGI and steel foundries
- Apart from higher life, it reduces inclusion in casting of metal and reduces rejection percentage

Ladle Lining for Tea Spout Ladles



Clean Metal



LADLE INSULATION



There is a saving of almost 60 deg centigrade on the body of ladle

- DFP supplies micro porous Insulation material for steel plants and foundry ladles
- Because of Insulation in ladle, reduces heat transfer
- Temperature in metal is maintained for a longer time so you can reduce tapping temperature from furnace
- Life of refractory increases when heat loss is reduced in ladle. Reduces energy and saves power consumption

SILICA RAMMING MASS

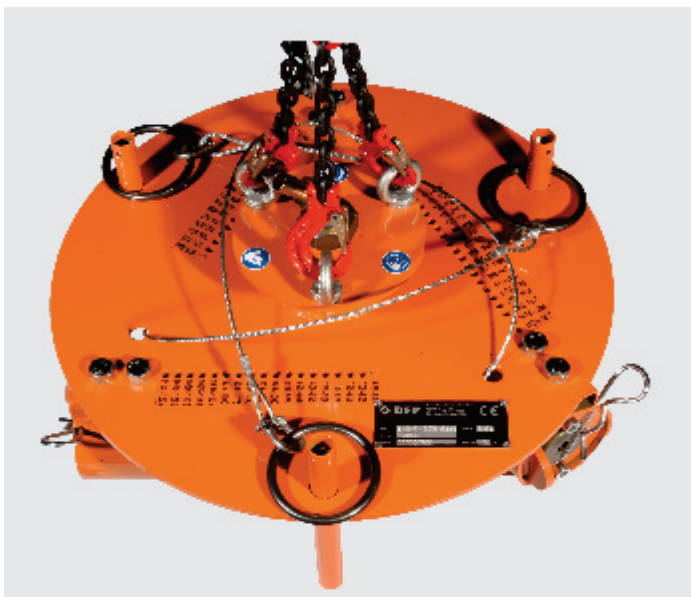
- DFP has very high grade Silica ramming mass with boron oxide premixed for Cast Iron and SG Iron foundries
- DFP Silica is from two different mines, one from Germany and second from Sweden. The world best silica is available in Germany and Sweden only.
- DFP has mixed both of them for getting higher packing density
- FP uses 200 mesh boron oxide for silica as binder so it has higher packing density and has higher binding strength.
- DFP silica has out performed at many places
- DFP provides customized solution for the lining, does not make fit for all.
- DFP also has fused silica which has very low expansion as compared to natural silica

BORON OXIDE PACKING



DFP Supply Boron oxide in water tight packing in Buckets to avoid any moisture entry. Boron is a highly hygroscopic material.

PNEUMATIC LINING VIBRATOR



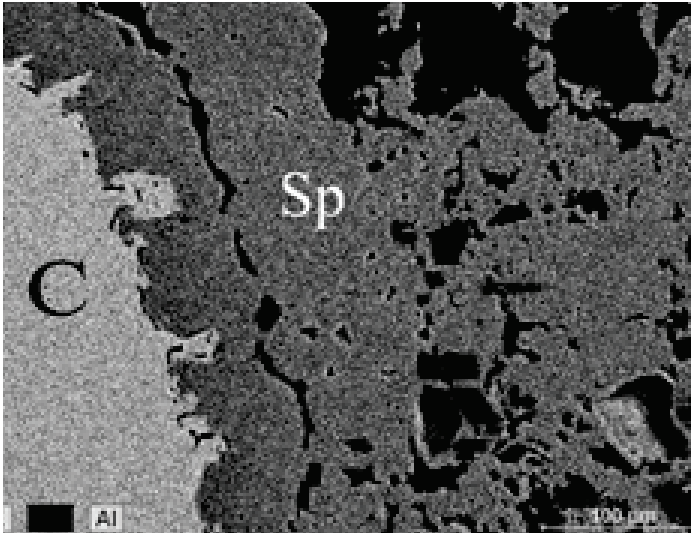
- DFP supplies Pneumatic Lining vibrator for Induction furnace and ladle lining from 300 kgs furnace to 50 ton furnace
- DFP's lining vibrator has higher running hours life and less maintenance cost
- PLC based lifting device reduces manual error in lining

LÜKORMA 10V6 SM | 10V7 SM | 10V13/O | 10V16

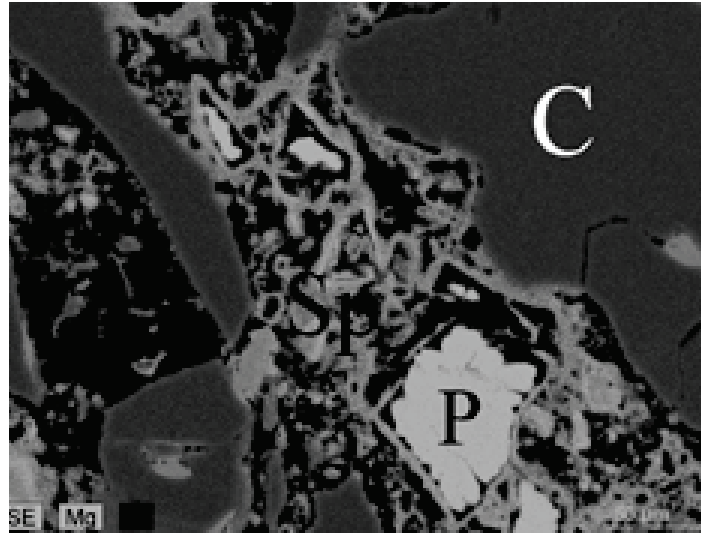
Spinel Forming Dry Vibrating Mixes

Results* from R & D:

Research of the spinel forming reaction Corundum (C) + Periclase (P) → Spinel (Sp)

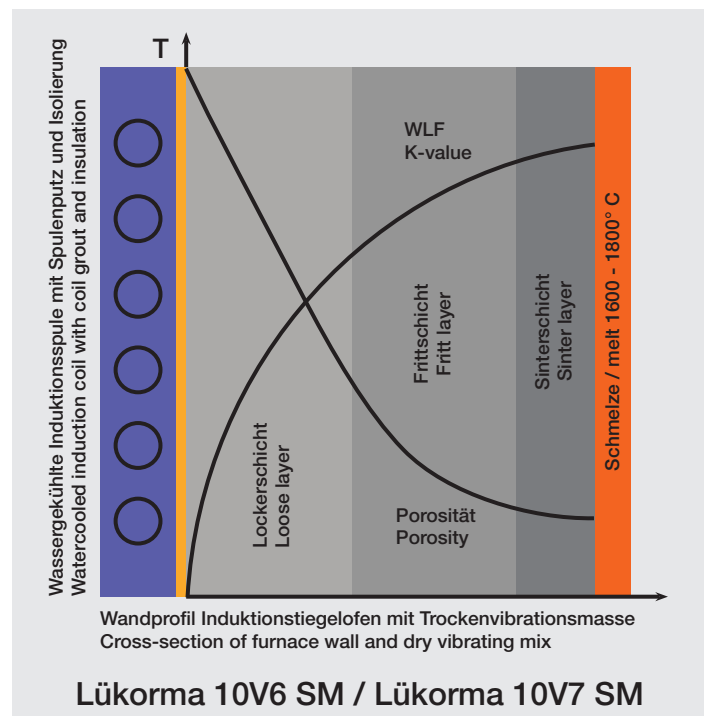
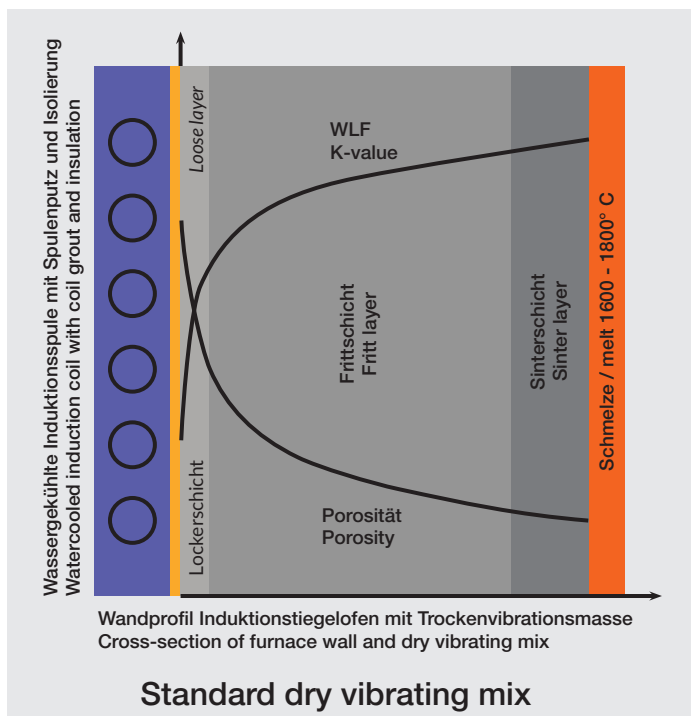


Coronitic formation of spinel (Sp) on the surface of coarse grained corundum (C) at the hot face of the furnace lining. (backscattered electron image, magnification: 250 times)



Transformation of periclase (P) and corundum (C) into skeletal spinel (Sp) at the cold face of the furnace lining. (backscattered electron image, magnification: 500 times)

RELATION OF LOOSE LAYER, POROSITY AND THERMAL CONDUCTIVITY





APPLICATION

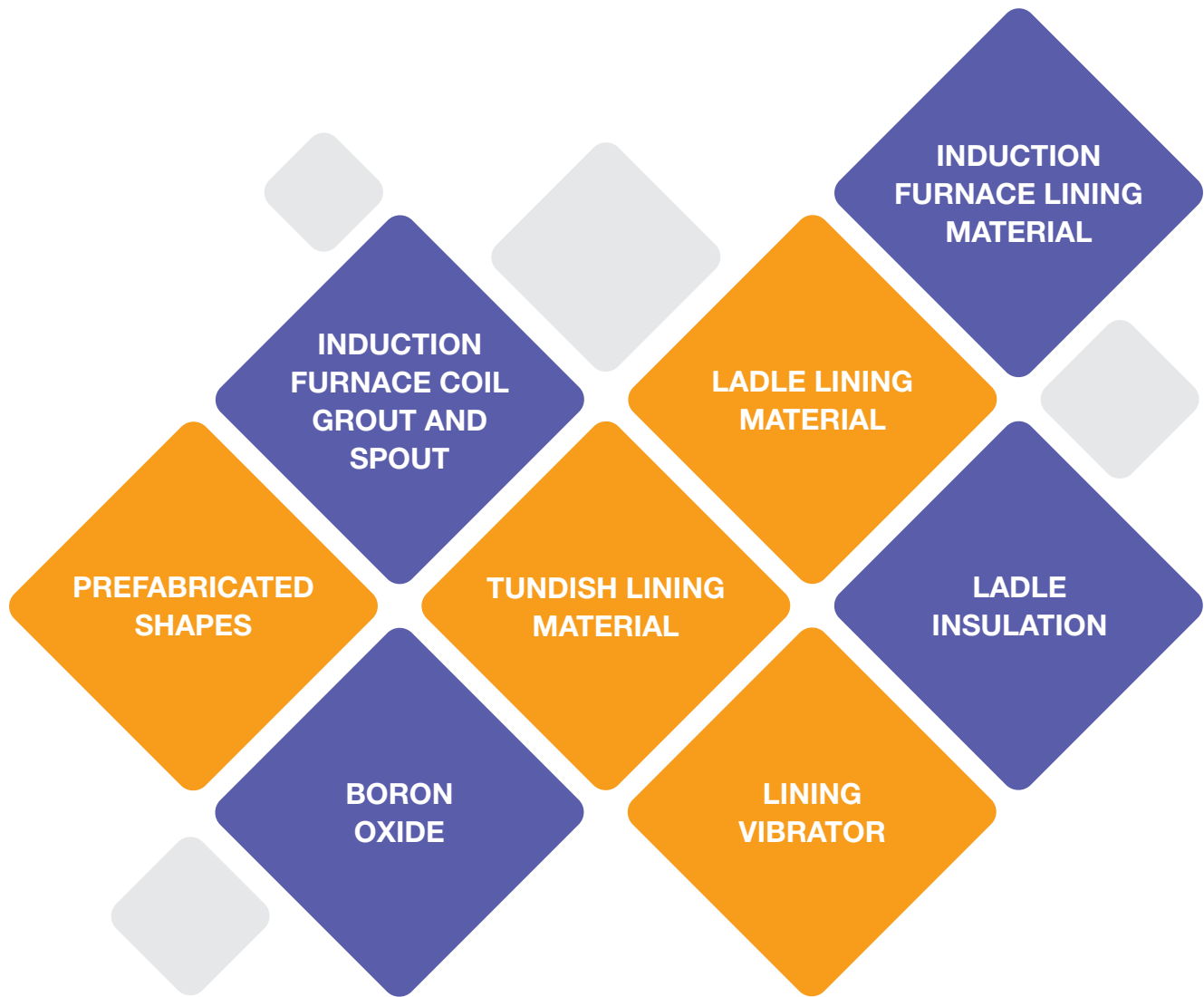
- Stainless Steel, Alloyed Steel and Mild Steel
- Coreless Induction Furnaces and Vacuum Coreless Induction Furnaces
- High Power Density Induction Furnaces
- For Melting Temperature up to 1850°C

SPECIAL FEATURES

- Usage of new raw material
- Optimization of the grain size distribution
- Wider layer of loose material at the coil side
- Improved resistance against chemical wear
- Longer furnace life time
- Increasing of production capacity
- Saving of time, cost and energy
- Advance of safeness during operation

* According to our quality policy after DIN EN ISO 9001:2015 our consisting products will be improved permanently and new customized products will be developed.

DFP INDIA PRODUCT RANGE



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FOR FURTHER INFORMATION OR ENQUIRY

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