DENTAL PORCELAIN POWDER
VERSION / MODEL : ZF
ISO 6872:2024 TYPE I CERAMICS
G-CERAM MF Metal-Ceramic is a natural feldspathic porcelain powder, which is used to make metal sub-structured porcelain crowns and bridges, porcelain veneer and dental inlays-onlays.

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G-CERAM	FIRING CHART					
	1st and 2nd Shoulder	**Wash Firing (Base Dentine)**	**1st Dentine**	**2nd Dentine**	**Glaze Low & Stains**	**Add On**
Dry Time	4 min	4 min	6 min	4 min	4 min	4 min
Start Temp	550°C	550°C	550°C	550°C	550°C	550°C
Heat Rate °C/min	55°C	55°C	55 °C	55°C	55°C	55°C
Vacuum Start	600°C	600°C	600 °C	600°C	None	600°C
Vacuum Stop	955°C	940°C	895 °C	890°C	None	840°C
High Temp	960°C	940°C	900 °C	895°C	890°C	840°C
Hold Time	1 min	1 min	20 sec	20 sec	1 min	1 min
Cool Time	1 min	1 min	3 min / 650°C	3 min / 650°C	3 min / 650°C	3 min / 600°C
Texture	Eggshell	Grainy Shiny	Grainy Shiny	Grainy Shiny	Glossy	Glossy

Zirconia framework is a lower thermal conduction characteristic material. Dua to this physical characteristic, thermal stress will be generated in between framework and porcelain in cooling process. This situation will be higher in big bridges and full restorations. This residual thermal stress in the veneering porcelain can be resisted by slow cooling to reduce the transformation temperature of the veneering porcelain during the firing cycle (approx. 650°C).

Please note:
The values listed here are intended for orientation only and should be regarded only as guidelines. Your firing results may differ.
All firing results depend on the performance of the furnace used, which in turn depends on the brand, model, age of the furnace and calibration.
This document does not replace the official Instructions for Use (IFU). For full handling and safety instructions, refer to the IFU.
These values are provided in good faith based on internal testing. Final results may vary and must be verified by the user.

COLOUR COMBINATION TABLE

Shoulder	Base Dentine	Dentine	Incisal
Bleach	A0	A0	I6
Light	A1	A1	I1
Medium	A2	A2	I2
Medium	A3	A3	I3
Medium Dark	A3.5	A3.5	I4
Dark	A4	A4	I5

Bleach	B0	B0	I6
Light	B1	B1	I1
Medium Light	B2	B2	I2
Medium Dark	B3	B3	I4
Medium Dark	B4	B4	I4
Light	C1	C1	I1
Medium	C2	C2	I3
Dark	C3	C3	I4
Dark	C4	C4	I5
Light	D2	D2	I1
Medium Light	D3	D3	I2
Medium	D4	D4	I3

PRODUCT GROUP	CTE $\times 10^{-6}$ K^{-1} (Linear thermal expansion)	Tg (Glass transition temperature)
ZF INCISAL	**9,5 ±0,5 $\times 10^{-6}$ K^{-1}**	**595±20 °C**
ZF DENTINE	**9,5 ±0,5 $\times 10^{-6}$ K^{-1}**	**595±20 °C**
ZF BASE DENTINE	**9,5 ±0,5 $\times 10^{-6}$ K^{-1}**	**595±20 °C**
ZF DENTINE MODIFIER	**9,5 ±0,5 $\times 10^{-6}$ K^{-1}**	**595±20 °C**
ZF INCISAL MODIFIER	**9,5 ±0,5 $\times 10^{-6}$ K^{-1}**	**595±20 °C**
ZF GUM SHADE	**9,5 ±0,5 $\times 10^{-6}$ K^{-1}**	**595±20 °C**

General Warning

- For professional use only.
- Oven parameters are critical.
- Compatibility with metal infrastructure must be checked.
- Dusts must not be inhaled.
- Mixing with liquid components must be done carefully.
- Eye contact must be avoided.
- Calibration of the oven device must be done regularly.
- Material must be homogenized before use.
- Allergy reaction must be monitored.
- Storage conditions must be observed.

Storage Conditions:

Store in a cool, dry place away from direct sunlight. Keep the container tightly closed. Use before the expiration date indicated on the label.