

KERAMIT NP



CO-CR DENTAL ALLOY FOR CERAMIC



□ *a smile makes the difference* □

Since 1988 millions of prosthetic elements have been produced with non-precious alloys by Nobil Metal. Know-How, R&D and Quality control to achieve a smile that makes the difference.



KERAMIT NP - Non-precious alloy
CE0546

COMPOSITION

| Co | Cr | W | Mo | Si | Nb |
|-----|-----|----|----|----|----|
| 63% | 24% | 8% | 3% | 1% | 1% |

ADVANTAGES

- ✓ Excellent biocompatibility
- ✓ High corrosion resistance
- ✓ Nickel, Berillium, Gallium free
- ✓ High modulus of elasticity
- ✓ Suitable for prosthetic on implants
- ✓ Laserweldable
- ✓ Suitable for the press-on-technique
- ✓ Excellent combination with resins and composites

TECHNICAL DATA

| | |
|-----------------------|---------------------------------------|
| Colour | White |
| Density | 8,3 g/cm ³ |
| Melting range | 1305-1370 °C |
| Casting temperature | 1470 °C |
| CTE 25 – 500°C | 13,9 10 ⁻⁶ K ⁻¹ |
| CTE 25 – 600°C | 14,0 10 ⁻⁶ K ⁻¹ |
| Modulus of elasticity | 210 GPa |
| Yield strength | 490 MPa |
| Elongation | 10% |
| Adhesion | > 40 MPa |
| Hardness | 285 HV 10/30 |

CORROSION RESISTANCE

| E _{ocp} | E _p | I ₃₀₀ | I _p |
|------------------|----------------|-------------------------|--------------------------|
| -128 mV | 649 mV | 4,34 µAcm ⁻² | 37,33 µAcm ⁻² |

ISO 22674 - ISO 9693-1

KERAMIT NP has been tested with the most popular ceramics for veneering and press-on-technique.

Excellent results have been obtained in combination with NM Bonding and Ceramco iC, Ceramco 3, Ceramco 3 Press, Duceram Kiss, Reflex, IPS In.Line, Vita VMK Master, Vita VM13, Noritake EX-3 Superporcelain, Creation CC.

