

Sales Datasheet – QualiSense NANOCORE ZR

1. Product Name and Classification:

- Trade Name: **QualiSense NANOCORE ZR**
- Product Type: **Flowable Microhybrid Composite (Dual Cure)**

2. Composition and Technical Features:

Feature	Value
Resin Base:	Poly- and difunctional methacrylates
Filler Type:	Inorganic fillers (0.02–10 µm) with nano-zirconium oxide and nano-calciumfluoride
Filler Content:	64% by weight, 48% by volume
Compressive Strength:	320 MPa
Flexural Strength (Dual Cure):	145 MPa
Flexural Strength (Self Cure):	123 MPa
Flexural Modulus (Dual Cure):	7440 MPa
Flexural Modulus (Self Cure):	5450 MPa
Diametral Tensile Strength (Dual Cure):	53 MPa
Barcol Hardness (24h):	75

3. Key Selling Points:

- Dual-cure system for versatility in core build-up procedures.
- Enhanced strength and modulus thanks to nano-zirconium oxide and nano-calciumfluoride fillers.

- Excellent flowability for easy handling and precise application.
- Reliable polymerization in both light- and self-cure modes.
- Ideal for use under crowns and bridges due to high compressive strength.
- Suitable for use as a resin composite luting cement for posts, crowns, and bridges.

4. Packaging

- **5 ml (10 g)** Automix syringe

5. Indications

- Core build-up prior to crown placement
- Post cementation where dual cure is advantageous
- Reinforcement of weakened tooth structures
- Luting cement for posts, crowns, and bridges

6. Storage and Shelf Life

- Store at temperatures between **5°C** and **20°C** (41°F to 68°F).
- Avoid exposure to direct sunlight or excessive heat.
- Shelf life: **24 months** from the date of manufacture when stored properly.

7. Ordering & Contact Information

- Product Code: R132-10