

Technical Data Sheet

1. Product Name: HT-650 Acid High-Temperature Resistant Silicone Sealant

2. Product Overview

AA108 is a red, acidic, 100% silicone sealant. It is a one-component, acid-curing sealant with fast curing and excellent mechanical properties. Suitable for aquarium structural sealing and industrial high-temperature sealing applications. It reacts with moisture in the air at room temperature to form a flexible silicone elastomer with long-term durability.

3. Physical and Chemical Properties

Item	Value/Description	Test Standard
Appearance	Red paste	Visual
Density (uncured)	$1.05 \pm 0.02 \text{ g/cm}^3$	GB/T 13477.2
Tack-free time	$\leq 10 \text{ minutes}$	GB/T 13477.6
Curing rate (24h)	$\geq 3.0 \text{ mm}$	GB/T 13477
Extrusion rate	$\geq 200 \text{ g/min}$	Internal method
Hardness (Shore A, cured 21 days)	25 ± 5	GB/T 531
100% elongation modulus	0.4 MPa	GB/T 13477.8
Ultimate tensile strength	$\geq 2.0 \text{ MPa}$	GB/T 528

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Item	Value/Description	Test Standard
Ultimate elongation	≥ 400%	GB/T 528

4. Product Specifications (Compliance Standards)

- **Compliance Standard:** GB/T 14683-2017 *Silicone Structural Sealants for Building*
 - **Conformance Statement:** The product complies with relevant industrial and construction sealant standards and is suitable for glass assembly, aquariums, container manufacturing, and other industrial sealing applications.
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5. Application Fields

- Aquarium glass structural sealing (compliant with DIN 32622)
 - Industrial high-temperature sealing (temperature range: -60°C to +280°C)
 - Glass assembly, silo equipment, container manufacturing
 - Suitable for non-porous substrates (glass, ceramic, tile, plastic, etc.)
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6. Packaging Information

- Drum: 200 KG/drum
 - Cartridge: 300 ml/tube × 24 tubes/carton
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7. Storage and Handling

- Storage temperature: < 25°C, cool and dry place
 - Shelf life: 18 months (unopened)
 - After opening, seal tightly to avoid moisture ingress
 - Wear gloves and safety glasses during handling; ensure adequate ventilation
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8. Safety and Compliance Information

- **Safety Warning:** Releases acetic acid during curing. Avoid inhalation of vapors; ensure good ventilation in the workplace.
 - **Contact Handling:** In case of skin or eye contact, rinse immediately with plenty of water and seek medical attention if necessary.
 - **GHS Labeling:**
 - H302: Harmful if swallowed
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - **Transport Classification:** Non-hazardous goods; can be transported as general cargo.
 - **Environmental Statement:** Free of heavy metals; compliant with RoHS/REACH requirements.
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9. Additional Notes

- Not suitable for marble, concrete, metals (lead, copper, etc.), or certain rubber materials.
 - Not recommended for structural bonding in construction.
 - Pre-use testing on a small sample is recommended to ensure adhesion performance.
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10. DISCLAIMER

The information provided in this Technical Data Sheet is based on data currently available and is for reference only. Users should conduct tests and evaluations based on actual conditions before use. The manufacturer shall not be liable for any consequences arising from improper use or application beyond recommended conditions.