

Technical Data Sheet (TDS) – CeramixCast Resin

Product Overview

CeramixCast Resin represents the pinnacle of precision for **investment casting applications**. Specially engineered for **direct investment casting**, it combines exceptional **burnout properties** and **superior surface finish**, making it the ideal choice for jewelry and other high-value applications. Whether you're creating intricate jewelry pieces or exploring technical applications, CeramixCast delivers both **high precision** and **outstanding aesthetics**.

Key Features

1. **Excellent Burnout Properties**
 - Parts made from **CeramixCast** gracefully evaporate during the burnout process at **moderate temperatures**, ensuring flawless casting.
 - No adverse reactions** with investment materials, resulting in a **casting free from porosity**.
2. **Optimal for Precious Metal Castings**
 - Ideal for crafting **intricate and precise precious metal castings**, such as rings, pendants, and more.
 - Low thermal expansion** makes it perfect for **high-value applications**.
3. **Superior Surface Finish**
 - CeramixCast** delivers a smooth, detailed surface, enhancing the **aesthetic quality** of your creations.

Material Properties (Tested per ASTM Standards)

Property	Value	Test Method
Viscosity	361.7 MPa	
Tensile Strength	16.8 MPa	ISO 527-1
Elongation at Break	7.46%	ISO 527-1
Flexural Strength	23.0 MPa	ISO 178
Flexural Modulus	404.0 MPa	ISO 178
Flexural Strain	10.2%	ISO 178

Property	Value	Test Method
Izod Impact - Notched	11.03 kJ/m ²	ISO 180
Density	1.178 g/cm ³	ISO 1183-1
Hardness (Shore D)	69 Shore	EN ISO 868
Ignition Temperature	350°C	53765

Applications

Jewelry Market

- **Create high-quality, intricate jewelry parts** with precision.
- **Standard burnout procedures** and **high-speed building** make it a go-to material for jewelry manufacturers.

Beyond Jewelry

- CeramixCast isn't limited to jewelry—its **technical functionality** meets **artistic needs**, making it suitable for other high-precision applications.

Colors Available

- **Amber**
- **Green**

Storage & Handling

- **Store in a cool, dry place**, away from direct sunlight.
- **Shake well before use** to ensure even distribution of the material.
- **Wear gloves and work in a well-ventilated area** when handling uncured material.

Regulatory Compliance

- **Manufactured by Resinify Technology LLC**, Detroit, Michigan, USA.
- **Complies with industry standards** for 3D printing and casting materials.