

**ZZ<sup>®</sup> 390 Fire Protection Putty****Technical data sheet**

<b>Trade name:</b>	<b>ZZ<sup>®</sup> 390 Fire Protection Putty</b>
<b>Description:</b>	Non-shrinking, solvent-free, plastic, intumescent butyl rubber, with halogen-free flame retardants.
<b>Implementation areas:</b>	Permanently elastic, self-adhesive sealing compound/kneading compound made of intumescent butyl rubber for fire protection Sealing compound/plasticizing compound made of intumescent butyl rubber for closing of cable and pipe penetrations.
<b>Product group:</b>	IN16 – Interior seals EX12 – Exterior seals
<b>Certificates:</b>	<ul style="list-style-type: none"><li>• Classification report no. 19/1737, Currenta</li></ul>
<b>Requirement set:</b>	R22, R23 according to EN 45545-2
<b>Hazard level:</b>	HL1, HL2, HL3
<b>Colour:</b>	Black
<b>Content / dimensions:</b>	Self-adhesive butyl rubber, 340 x 44 x 44 [mm]
<b>Transport / storage:</b>	Store dry and protected from dust
<b>Storage temperature:</b>	5 °C bis 30 °C
<b>Application temperature:</b>	5 °C bis 30 °C, recommended: 20 °C bis 25 °C
<b>Bulk density (material has fully reacted):</b>	$\rho = \text{ca. } 1500 \text{ kg/m}^3$
<b>Safety notices:</b>	Please observe the safety data sheet.

**ZZ<sup>®</sup> 390 Fire Protection Putty****Verhalten im Brandfall**

**Rauchentwicklung  
nach EN ISO 5659-2:**  $D_s \text{ max (-)} = 80$

**Brennverhalten  
(Sauerstoffindex)  
nach ISO 4589-2:**  $OI \geq 32,0 \%$

**Rauchgastoxizität  
nach NF X 70-100-1 /-2:**  $CIT_{NLP} = 0,11$

All the information in this leaflet is based on current technical knowledge and experience. Details on processing and application must be checked on a project-by-project basis due to the variety of possible influences.

If the application for which our products are used is subject to a government agency approval obligation, then the user is responsible for obtaining this approval. We would be pleased to respond to any enquires you might have.

The information in this document and declarations of Karl Zimmermann GmbH in conjunction with this document do not constitute any assumption of a guarantee. Guarantee declarations require the separate, express written declaration of Karl Zimmermann GmbH.

The conditions specified in this data sheet represent the characteristics of the delivery object, they do not represent any specific values. Specific values must be separately determined on a case-by-case basis.

We reserve the right to adapt the product to technical progress and to new developments.

In all other aspects we refer to our general terms and conditions.