



FILLING PRODUCTS

Chemotechnische Fabrik e.K.



FILLING PRODUCTS Chemotechnische Fabrik e.K. • Johannes-Robert-Becher-Straße 35 • 02827 Görlitz, GERMANY

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Page	1
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COMPARISON OF BIRKOSIT WITH THE FILLING PRODUCTS

Dear Sir/Madam and valued business partner,

We are delighted to be able to present to you our new **FILLING PRODUCTS** range after several years of intensive development work: **FILLING basic®**, **FILLING 1000®** and **FILLING 2000®**.

The products have been successfully certified as conforming to DIN EN ISO 9001:2008 and we have proof of the use of the product by leading turbine manufacturers, such as **Siemens AG, GE (Alstom AG)** and other **well-known reconditioning companies**. Trademark rights have been registered and secured.



We can provide our customers with the following guarantees in connection with the market launch of the FILLING PRODUCTS:

- All the **FILLING PRODUCTS** in the range are an **advanced development** of our sealing compound **BIRKOSIT Dichtungskitt®**.

They are **not new** products but **improved** products based on a product which has been established on the international market for more than 50 years.

- In comparison to our product **BIRKOSIT Dichtungskitt®**, which compensates for sealing surface damage of up to **≤ 0.2 mm**, the products **FILLING basic®**, **FILLING 1000®** and **FILLING 2000®** now make it possible to fill areas of surface damage of **≤ 0.2 mm** to **≤ 1.0 mm**!



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- 2 -

- The production processes and the basic composition of the **FILLING PRODUCTS** and **BIRKOSIT Dichtungskitt®** are identical but there are some extra manufacturing steps and additives in the **FILLING PRODUCTS**.
- We guarantee the same or even better product properties and storage life figures for the FILLING products in comparison to **BIRKOSIT Dichtungskitt®**.
- The **FILLING PRODUCTS** benefit from the existing distribution network of BIRKOSIT® with its General Agencies, guaranteeing the constant availability of sufficient quantities of the products.
- The **FILLING basic®** can be purchased for the same price as **BIRKOSIT Dichtungskitt®**.

Please refer to the product comparison on page 3 for further information.

With our range of newly developed **FILLING PRODUCTS** and our established distribution system spanning more than 10 years in the market, we can solve virtually any problem in connection with the sealing of metal joints, boasting short lead times, value for money and top quality.

Looking forward to doing business with you in future!

Yours faithfully,

Dieter Bartkowiak
Development Manager



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- 3 -

Comparison of BIRKOSIT Dichtungskitt® sealing compound with FILLING basic®, FILLING 1000® and FILLING 2000®

Property	BIRKOSIT Dichtungskitt® 	FILLING basic® 	FILLING 1000® 	FILLING 2000® 
Temperature resistance	Resistance to hot steam, hot air, hot and cold water, fuel oils, lubricants, crude oil and natural gas			
	Up to 900 °C	Up to 950 °C	Up to 950 °C	Up to 950 °C
Pressure resistance	With 100 % seal on machined sealing surfaces (parting lines)			
	250 bar	275 bar	275 bar	275 bar
Service life	When used for machined sealing surfaces (parting lines)			
	10 years	10 years	10 years	10 years
Fields of application	Sealing of surfaces of all sizes. The quality of the sealing surfaces is equivalent to machined or abraded surfaces with a finishing accuracy of Ra = 0.8 µm to 1.2 µm. Areas of damage on these sealing surfaces are filled		Sealing of surfaces of all sizes (FILLING 1000®). The quality of the sealing surfaces is equivalent to machined or abraded surfaces. Areas of pitting, shallow corrosion or erosion damage on these sealing surfaces are filled	
	≤ 0.2 mm	≤ 0.2 mm	≤ 0.5 mm	≤ 1.0 mm
Product use	We recommend a working temperature of 80 °C and pressure of 1 bar for the product. BIRKOSIT Dichtungskitt® is not suitable for hydrostatic testing! The product can be subjected to load immediately!	We recommend a working temperature of 80 °C and pressure of 1 bar for the product. FILLING basic® is not suitable for hydrostatic testing! The product can be subjected to load immediately!	We recommend a working temperature of 15 °C and pressure of 1 bar for the product. FILLING 1000® is suitable for hydrostatic testing! The product can be subjected to load immediately!	We recommend a working temperature of 15 °C and pressure of 1 bar for the product. FILLING 2000® is suitable for hydrostatic testing! The product can be subjected to load immediately!
Product application	Apply with a brush Layer thickness 0.2 - 0.3 mm <u>No heating required</u>	Apply with a brush Layer thickness 0.2 - 0.3 mm <u>No heating required</u>	Apply with a spatula Layer thickness 0.2 - 0.8 mm <u>No heating required</u>	Apply with a spatula Layer thickness 0.2 - 1.3 mm <u>Heating required</u>
Compatible with FILLING Products	No	Yes	Yes	Yes
Dangerous substance classification	The product is not classified as a hazardous substance. Water hazard class: WHC 1 = Low hazard to waters	The product is not classified as a hazardous substance. Water hazard class: WHC 1 = Low hazard to waters	The product is not classified as a hazardous substance. Water hazard class: WHC 1 = Low hazard to waters	The product is not classified as a hazardous substance. Water hazard class: WHC 1 = Low hazard to waters
Absence of chemicals	Yes	Yes	Yes	Yes
Storage life	Product will keep in closed / opened tins if stored correctly			
	5 years / 3 years	5 years / 3 years	5 years / 3 years	5 years / 3 years
Worldwide purchase price	201.93 EUR/kg Minimum order quantity 10 kg	201.93 EUR/kg Minimum order quantity 10 kg	441.98 EUR/750g Minimum order quantity 7.5 kg	737.12 EUR/750g Minimum order quantity 7.5 kg
Length of time on market	More than 60 years	Since 2012	Since 2012	Since 2012