



➤ **MECHANICAL ENGINEERING AND STS FRICTION –
THE COMBINATION FOR YOUR SUCCESS!**

*Efficient machinery and efficient operations with innovative materials
from STS Friction GmbH.*

THE BEST MATERIALS.

Modern and innovative industrial firms work with machinery and equipment which are subjected to high loads in the “brake” and “coupling” areas. The efficient operation of these machines is an essential requirement for good economy – and this depends on the best materials.

STS Friction GmbH is an effective and creative partner for all your customers' requirements. Success in our industries requires rapid and tailored solutions. You can therefore rely on quick response times, direct approachability and short communication channels.

We have a wide product range of friction, sliding and insulating materials which have all been developed in-house and produced exclusively from branded raw materials.

At STS Friction, we meet all demands concerning the individual shaping of our materials. Furthermore, with our wide range of dies, we are also the right partner for your **spare parts requirements**. We guarantee you the best service here, too: our application engineers respond quickly and reliably to our customers' requirements.

Our materials boast a wide range of applications in mechanical engineering:

The **STS 4061** is distinguished by its exceptional dimensional stability and great mechanical strength in all stress directions. It impresses due to its minimal differences between static and dynamic friction coefficients. In addition, it goes easy on all common mating materials, while impressing with its own low wear.

The **STS 4065** is the all-rounder in our product range. For dynamic application in industrial brakes and couplings, this lining is ideal for use thanks to its high and stable friction coefficients. This makes the material indispensable in modern mechanical engineering.

The **STS 4590** is perfectly suited to the often heavy loads in mechanical engineering, especially in drive and lifting technology. It has a high, stable friction coefficient and is appropriate for use in disc brake pads – meaning they're perfect for brakes in cranes and rotors. The STS 4590 is an organically bound friction material with exceptionally high thermal load capacity and therefore also finds its application in the traditional working field of friction sinter linings.

	STS 4061	STS 4065	STS 4590
Dry friction coefficient	0,44 μ	0,40 μ	0,49 μ
Max. perm. temperature	160 °C	180 °C	500 °C
Compressive strength at room temperature	110 N/mm ²	115 N/mm ²	130 N/mm ²

Mechanical engineering is an engine of innovation, spawning forward-looking products time and again.

This engine can only run if it can rely on its materials. STS Friction can help you in this regard – all friction-related questions are in good hands when addressed to us.

You can find our broad product range on our website www.sts-friction.de. Remember: our application engineers are ready and waiting to provide you with personalised advice!

Regarding what projects might we provide you with assistance? Get in touch with us!

STS FRICTION – PERSONAL, INDIVIDUAL, EXPERIENCED.

STS Friction GmbH considers itself an SME which is family-run the best possible way.

Three words in particular sum this up nicely:

Personal – We are an owner-managed business and belong to a large family firm from the Ruhr Valley. The motivation of a company owner is securing jobs in the long term and sustainable business growth. This is heard so often and sounds meaningless, but it is a reality for us. Many of our employees have been with us since the company's foundation over 20 years ago. Staff turnover is very low. A company develops well if the whole team identify with its goals – this is behind the success of STS Friction GmbH.

Individual – Being successful in our industries demands rapid and tailored responses to the needs of our customers. For us, knowledge of the written and unwritten rules goes hand in hand with the use of branded goods. We support our customers with their requirements from our premises in Moers. Rapid response times, direct approachability of the relevant colleagues and short communication paths – the way a family-run SME should be!

Experienced – For over 20 years our company has been based at Moers and our employees identify with the firm and the region. Experienced, motivated employees who are home in customer industries. Exclusive use of branded raw materials. Commercial thinking at all levels. What could be better for modern customers than working with STS Friction?

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