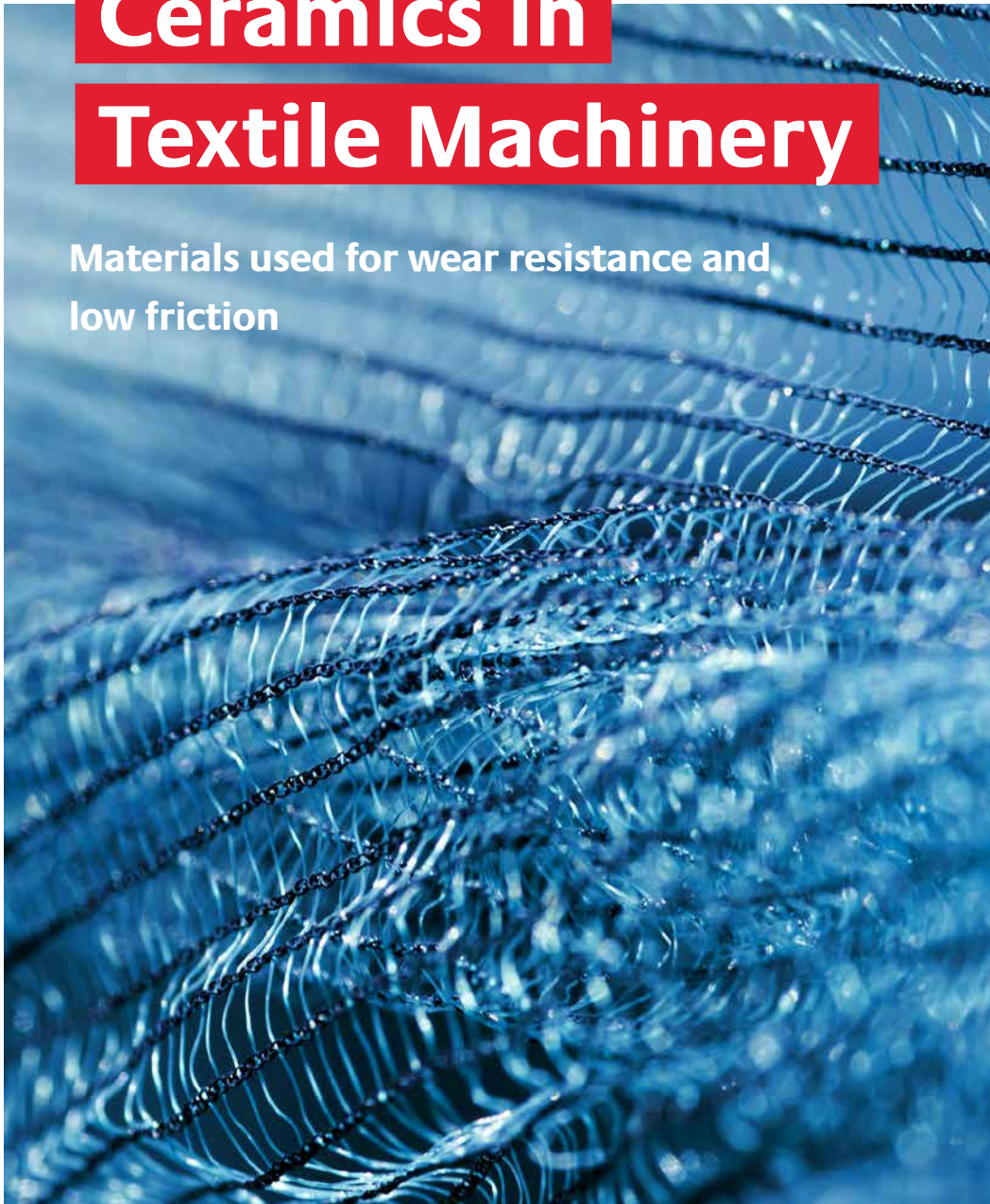




Ceramics in Textile Machinery

Materials used for wear resistance and
low friction





KYOCERA – it all started with ceramics

Our first product was a U-shaped ceramic insulator used in early television picture tubes. It was made in a small suburban workshop in 1959 when 28 young colleagues started the company with big dreams. Today Kyocera is a highly diversified global enterprise with over 77,000 employees. The company is one of the world leaders in the manufacturing of ceramic components and products, with an extensive range of applications. Kyocera now provides over 200 kinds of ceramic materials including oxide, non-oxide and some special composites, with cutting edge technology and services designed to meet the individual needs. Our long-standing experience in the field of ceramics is applied in the production of very precise, high quality products used in multiple fields.

Our strength – wide variety of customized ceramic materials



Alumina (Al₂O₃)



Silicon Nitride (Si₃N₄)



Silicon Carbide (SiC)



Zirconia (ZrO₂)



Others (Titania, Cermet, Sapphire etc.)

► Grain shapes - influence on properties for friction disc

Friction Disc



	Standard Disc	Low Snow Disc	Special Disc
Grain shape			
False	1	0.8	1
Snow amount	1	0.8	0.8
Grain size	6 μm	10 μm	4-6 μm
Cost	1x	1.3x	1.5x

► Different materials - influence on lifetime

Oiling Nozzle

Alumina



Lifetime: 1-2 months

Zirconia



Lifetime: over 12 months

Top Guide

Alumina



Lifetime: 2 weeks

Zirconia



Lifetime: 7 weeks

► Lifetime improvement

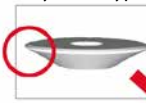
► Change of design - influence on durability

General type



Edge shape

Kyocera type



Edge shape

Knife Edge Disc



► Easy handling
► Robust edge



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