

Dynamic seal materials overview

The following overview represents a selection of typical PTFE materials used for seals, guide elements and wipers. Other PTFE materials are available for specialized applications. If you require more information, also about materials not described here, please write or call us, we will be happy to help.

Material: **CCN-1001**

Filler: carbon / graphite
Color: black

Properties	Operating conditions	Application areas	Counter surface
high pressure resistance, good chemical resistance and thermal resistance	higher mechanical stresses, greater speeds, high pressures and temperatures	water-based hydraulic systems, pneumatic systems, for lubricating and non-lubricating media	steel, hard chrome-plated steel, stainless steel

Material: **CCN-BRR40**

Filler: bronze
Color: brown

Properties	Operating conditions	Application areas	Counter surface
high pressure resistance and hardness, good thermal conductivity, abrasion-resistant	standard material for hydraulic systems, high mechanical stresses, greater speeds, medium temperatures, high pressures and frequencies, hard counter surfaces	oil-based hydraulic systems, pneumatic systems, for lubricating and non-lubricating media, not for aqueous solutions and acids	hardened steel, hard chrome-plated steel, cast iron

Material: **CCN-BRR60**

Filler: bronze
Color: brown

Properties	Operating conditions	Application areas	Counter surface
very high pressure resistance and hardness, good thermal conductivity, highly abrasion-resistant, highest creep resistance	high mechanical stresses, greater speeds, medium temperatures, high pressures and frequencies, hard counter surfaces	oil-based hydraulic systems, pneumatic systems, for lubricating and non-lubricating media, not for aqueous solutions and acids	hardened steel, hard chrome-plated steel, cast iron