

ALL ROUNDER

R-SERIES – ROBUSTNESS AND PERFORMANCE COMBINED

LEAD-FREE STEEL-ALUMINUM-COMPOSITES

FEATURES AND CHARACTERISTICS

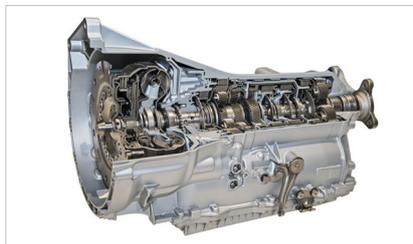
KS R21	KS R25	KS R53
Especially robust	Especially efficient	Extreme powerful
High load capacity	High wear resistance	Especially high wear resistance
	High scuffing resistance	
	Very good embedding and adaptability	
	Insensitive to oil corrosion	
	Very good emergency running properties	

TYPICAL APPLICATIONS

(Industrial-) Engines



(Industrial-) Gearboxes



Hydraulic motors



Additional applications:

- Steering systems
- Pumps
- Brakes
- and many more

For further applications please contact our technical support.

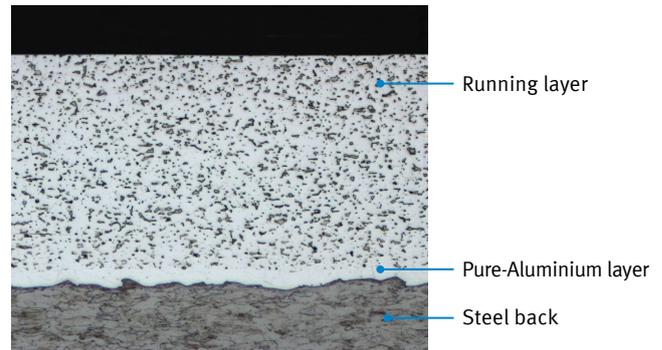
BEARING STRUCTURE

Sliding elements

- Steel back (DC04)
- Pure-Aluminium layer
- Running layer:
AlSnCu (R21, R25)
AlSnSi (R53)

Characteristics

- Variable Steel thickness depends on the application
- Oil grooves and drillings possible



MATERIAL CHARACTERISTICS

Characteristic values	KS R21	KS R25	KS R53	Unit	
Mechanical characteristics	Tensile strength	> 165	> 130	> 150	[N/mm ²]
	Yield strength	> 140	> 110	> 100	[N/mm ²]
Load capacity	55	60	75	[MPa]	
Permissible temperature range	160 (short-term: 220)			[°C]	
Thermal expansion coefficient	24*10 ⁻⁶			[1/K]	
Thermal conductivity	50			[W/m*K]	

QUALITY

- The complete manufacturing process is monitored and controlled by a proven set of quality assurance measures

CERTIFICATES

- Made in Germany
- ISO9001, ISO14001, ISO50001, IATF 16949

SUSTAINABILITY



CONTACT

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