Producer:		Kempch	en & Co. GmbH		
Producer - Type:		K 80 (Graphite high grade)			
Producer-Mark-Code::					
Order-/ Item-No.:					
Material-Briefname / Norm:		Graphite 99,85 %			
Material-Briefname / Norm:					
Impregnation:		no one			
			eter (mm)	thickness (mm)	
	i	nside	outside		
Dimension range					
Dimension range others (mm)	Packii	ng cross-se	ection 4 until 25 m	m	
Characteristics	unit		Testing method / Test standard	Minimum value of the product guaranteed	
Density	g/cm ³		DIN 28090-2	$1,2\pm0,1$	
				(deliver-condition)	
Density of Graphite	g/cm ³		DIN 28090-2	1,0	
(if Graphite is used)				(source-material)	
Data regarding resistance					
Maximum working temperature (°C) for steam / water	°C		-	550	
Media resistance	-		DIN 28090-3	not specify	
Long-Term-Resistant		-			
Limit value with respect to the change				always	
of sealing- and deformation characteristics and if applicable gasket				depending on	
dimensions				the kind of	
(media, pressure, temperature, seal-				application	
expanse-pressing and so on)					
Part of contamination			-	D 2021/50 appendix D	
Water soluble chloride	mg/K		Siemens-Norm	≤ 20	
Total amount chloride and fluorine		mg/Kg	DIN 28090-2	≤ 100	

	prepared:	released:
Date:	04.12.2003	04.12.2003
Name:	H. Buchholz	H. Hehle

Characteristic values for packings

Dimensions of the test samples (mm):	Dimension of the housing of the packing (mm):
10 x 10	Ø 40 / 60
Testing medium:	

Characteristic		Unit	Test method / Test standard	Minimum value of the product standard
Axial-to-radial load transfer ratio K			Test. Kempchen	0,70 until 0,92 (σ ₁₀₋₁₀₀)
Coefficient of friction μ at temperature T				0,18 until 0,12 (20°C/σ ₁₀₋₁₀₀)
Product K * μ			Test Kempchen	0,119 until 0,110 (σ ₁₀₋₁₀₀)
Comprised of the axial-to-radial load transfer ratio K and the coefficient of friction μ				
Minimum surface-pressure ¹⁾ in fitting condition $\sigma_{VU/L}$		N/mm ²	Test Kempchen	$\sigma_{\rm V} = 20$
				(for the lower packing)
Minimum surface-pressure ¹⁾ in working condition $\sigma_{BU/L}$		N/mm ²	Test Kempchen	$\sigma_{BU} = m * p (m = 1,5)$
				(for the lower packing)
Coefficient of relaxation temperature T (σ_A)	²⁾ g at working			Temporary available
	RT			Temporary available
	100 °C			Temporary available
	200 °C			Temporary available
	300 °C			Temporary available

1) Alternatively the requisite compressive stress for initial installation shall be stated

2) The coefficient of relaxation g is defined as the ratio between the compressive stress at operating temperature and the surface pressure (σ_A) at RT. The relaxation factor is dependent of temperature and loading time.