



Lehrstuhl für Maschinenelemente und Fördertechnik
Ruhr-Universität Bochum, D-44780 Bochum

Süther & Schön GmbH
Bonifaciusring 18
45309 Essen

Prof. Dr.-Ing. Gerhard Wagner
Fakultät für Maschinenbau
Lehrstuhl für
Maschinenelemente und Fördertechnik
Telefon: +49 (0) 234 / 700-6722, -6723
Telefax: +49 (0) 234 / 7094-161
E-Mail: sekr@lmf.ruhr-uni-bochum.de

March 21, 2007

		Type testing acc. DIN EN 13411 - 6 on casted asymmetric wedge socket Part 2(2) Fatigue test	
Company: Süther & Schön GmbH			
Rope			
∅	Construction		Minimum breaking force F_{min} [kN]
15	CASAR Eurolift (2160 N/mm ²)		219,50
Asymmetric wedge socket G 450 GS			
	socket body	wedge with two holes	pin
item-no.	KK3 1215 00 000 148	K02 1215 00 000 148	B03 1215 00 000 148
new item-no.	KK3 1315 00 000 411	K02 1215 00 000 411	B03 1215 00 000 148
material	GS 26 CrMo 4V1	GS 45	Cq 45 heat treated to 10.9
Fatigue test			
no.	Minimum force $F_u = 0,15 * F_{min}$ [kN]	Maximum force $F_o = 0,3 * F_{min}$ [kN]	Load cycles
25.06	32,93	65,85	75.000
results	The 2 test samples fulfil the fatigue test (6.24) . The non destructive testing of the component parts by dye penetrant method did not exhibit visable cracks.		

Dr.-Ing. G. Kraft, AOR