

DIN 732:2010-05 (E)

Rolling bearings - Thermally safe operating speed - Calculation and correction values

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Symbols and units	5
5	Calculation	6
5.1	Calculating the thermally safe operating speed n	6
5.2	Lubricant factor K_L	8
5.3	Load factor K_P	8
5.4	Determining the total heat emitted	8
Annex A (informative)	Coefficients f_0 and f_1	10
Bibliography		12
Figures	Figure 1 -- Speed ratio f_n	7
	Figure 2 -- Thermal transmittance k_q as a function of bearing seating area A_S	9
Tables	Table 1 -- Symbols and units	5
	Table A.1 -- Guidance values of coefficients f_0 and f_1	10