

ISO 12130-2:2013-09 (E)

Plain bearings - Hydrodynamic plain tilting pad thrust bearings under steady-state conditions - Part 2: Functions for calculation of tilting pad thrust bearings

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative reference	1
3 Functions for the tilting pad thrust bearing	1
3.1 General	1
3.2 Characteristic value of load-carrying capacity, F^* , as a function of the relative bearing width, B/L , and the relative minimum lubricant film thickness, h_{\min}/C_{wed}	1
3.3 Characteristic value of friction, f^* , as a function of the relative bearing width, B/L , and the relative minimum lubricant film thickness, h_{\min}/C_{wed}	4
3.4 Relative lubricant flow rates Q_1^* and Q_3^* as a function of the relative bearing width, B/L , and the relative minimum lubricant film thickness, h_{\min}/C_{wed}	5
3.5 Relative pressure centre coordinate or tilting pad supporting point a_F^* as a function of the relative bearing width, B/L , and the relative minimum lubricant film thickness, h_{\min}/C_{wed}	8
4 Effective dynamic viscosity of the lubricant, η_{eff}, as a function of the effective lubricant film temperature, T_{eff}	10
Bibliography	12