

ISO 12130-2:2001-11 (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 | 2 |
| 3.1 | General | 2 |
| 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} | 2 |
| 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 $^* 1Q$ and $^* 3Q$ 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 $^* Fa$ 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 |