DIN ISO 21250-1:2023-09 (E)

Rolling bearings - Noise testing of rolling bearing greases - Part 1: Basic principles, testing assembly and test machine (ISO 21250-1:2020)

Contents

Page

National foreword ... **3**

National Annex NA (informative) **Bibliography** ... **4**

Foreword ... **5**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **7**

4 Symbols, abbreviated terms and subscripts ... **8**

5 Basics ... **9**

6 Grease noise evaluation method ... **10**
6.1 General and overview ... 10
6.2 Calculation method for the grease damping ... 10
6.3 Calculation method for peak analysis ... 11
6.4 Calculation for SUN analysis ... 13

7 Noise testing of greases ... **13**
7.1 General information ... 13
7.2 Measuring principle ... 14
7.3 Test machine ... 14
7.4 Test setup ... 14
7.5 Test bearings and amount of grease ... 14
7.6 Test load ... 15
7.7 Spindle speed ... 15
7.8 Signal recording ... 15
7.9 Display ... 16

8 Calibration ... **16**
8.1 General ... 16
8.2 Calibration levels ... 17
8.3 Calibration means ... 17

9 Error estimation ... **17**

Bibliography ... **19**