ISO 10300-3:2014-04 (E)

Calculation of load capacity of bevel gears - Part 3: Calculation of tooth root strength

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols, units and abbreviated terms 2

5 General rating procedure 2

6 Gear tooth rating formulae -- Method B1 3
6.1 Tooth root stress formula 3
6.2 Permissible tooth root stress 4
6.3 Calculated safety factor 5
6.4 Tooth root stress factors 5
6.5 Permissible tooth root stress factors 13

7 Gear tooth rating formulae -- Method B2 17
7.1 Tooth root stress formula 17
7.2 Permissible tooth root stress 17
7.3 Calculated safety factor 18
7.4 Tooth root stress factors 18
7.5 Permissible tooth root stress factors 36

8 Factors for permissible tooth root stress common for method B1 and method B2 36
8.1 Size factor, YX 36
8.2 Life factor, YNT 38

Bibliography 41