

# DIN 743-3:2012-12 (E)

## Calculation of load capacity of shafts and axles - Part 3: Strength of materials

---

Contents	Page
Foreword .....	3
1 Scope .....	4
2 Normative references .....	4
3 Symbols, designations and units .....	4
4 Material strength values .....	5
4.1 Fatigue strength .....	5
4.2 Yield point .....	5
Annex A (normative) Ultimate strength values .....	6
Annex B (informative) List of former designations of structural steel for comparison .....	8
Tables Table A.1 -- Ultimate strength values for non-alloy structural steels according to DIN EN 10025-2 .....	6
Table A.2 -- Strength for weldable fine grain structural steels according to DIN EN 10025-3 .....	6
Table A.3 -- Ultimate core strength values for case hardening steels (corresponding to blank-hardened condition) according to DIN EN 10084 .....	6
Table A.4 -- Ultimate strength values for quenched and tempered steels according to DIN EN 10083-2 and DIN EN 10083-3 .....	7
Table A.5 -- Ultimate strength values for nitriding steels according to DIN 17211 .....	7
Table B.1 -- Designations of structural steels .....	8