ISO 6626-2:2013-08 (E)

Internal combustion engines - Piston rings - Part 2: Coil-spring-loaded oil control rings of narrow width made of cast iron

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Overview 1

4 Piston ring types and designation 2
4.1 DSF-C, SSF, GSF, DSF, SSF-L, DSF-NG and DSF-CNP types 2
4.2 Type DSF-C -- Coil-spring-loaded bevelled edge oil control ring, chromium-plated, and profile ground 2
4.3 Type DSF-CNP -- Coil-spring-loaded bevelled-edge oil control ring, chromium-plated not profile ground 3
4.4 Type SSF -- Coil-spring-loaded slotted oil control ring 4
4.5 Type GSF -- Coil-spring-loaded double bevelled oil control ring 5
4.6 Type DSF -- Coil-spring-loaded bevelled edge oil control ring 6
4.7 Type DSF-NG -- Coil-spring-loaded bevelled-edge oil control ring (face geometry similar to type DSF-C) 7
4.8 Type SSF-L -- Coil-spring-loaded slotted oil control ring with 0,4 mm nominal land width 8

5 Common features 9
5.1 Oil drainage by slots or holes 9
5.2 Plating thickness -- DSF-C and DSF-CNP (coil-spring-loaded bevelled edge oil control ring, chromium plated) 11
5.3 Peripheral edges at gap of chromium plated oil control rings 12

6 Coil springs 12
6.1 Types of coil spring 12
6.2 Coil spring excursion (extended gap) 14
6.3 Position of coil spring gap and fixing 14
6.4 Material 14

7 Tangential force and nominal contact pressure 14
7.1 Tangential force 14
7.2 Force factors 14
7.3 Tangential force, Ft 15
7.4 Classes of nominal contact pressure, po 15

8 Dimensions and tangential forces 17

Bibliography 36