

??
 $d >$
 $1mm$
 $R <$
 $50mm$
??

[®]
 ”Smooth-
 on[®]
 BLUES-
 TAR
 silicones[®]
 ??
[®]
 $\frac{d}{R}$
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 $\frac{AJO}{121}$
 $\frac{AJO}{122}$
 BLUES-
 TAR
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 dichlorobenzoyl
 per-
 ox-
 ide
[®]
 P_{ζ}^{∞}
 $(\frac{d}{R})^2$
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 $\frac{d}{R}$
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 10^{-3}
 6.76
 10^{-2}
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ρ

$\frac{\mu}{2}$

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$$\frac{d}{R} = 0.08$$

$$\frac{d}{R} = 0.22$$

$$\frac{d}{R} = 0.30$$

$$\frac{d}{R} = 0.08$$

1/dynamic_pressure_cycle.png Qualitative representation of pressure cycles applied during the experiments

$$\frac{d}{R} = 0.08$$

$$\frac{d}{R} = 0.22$$

$$\frac{d}{R} = 0.30$$

5
 θ_h
 $\frac{\pi}{2}$
1/

*outer_contour_complete.png*Fittedoutercontourinblue, fittedconcavityinred, andexperimentalconcavitypointsinyellow

6

??
600

₁/schematic_experimental_setup_{fr}.png Schematic representation of the frictionless rail experimental setup

TM

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₁/Airbearing.png Illustration of the air bearing system

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₁/setup_rail.pdf Picture representing the experimental setup to mount the rail

frequency¹⁰

5

W

532

50

μm

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1

©

optical_system_PIV.pdf Picture of the laser and optical system used for the PIV measurements

$$g^{211}$$

$$10$$

$$100$$