

# THERMAL DEFORMATION INFLUENCE TO CRYOGENIC PUMPS SEALS OPERABILITY

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The bush seals and seals with semi-movable rings are widely used in rocket engines turbopumps. One of abnormal function of this seals causes is – contact of rotor and stator elements. This occurs due to incorrect selection of seal clearance that connected with thermal deformations.

*Seal, rotor, stator, thermal deformation, temperature coefficient of linear expansion, sealing clearance, chill-down*

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