



BSI Standards Publication

Hydraulic fluid power — Filter elements — Verification of fabrication integrity and determination of the first bubble point

National foreword

This British Standard is the UK implementation of [ISO 2942:2018](#). It supersedes [BS ISO 2942:2004](#), which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/18/-/6, Contamination control.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Hydraulic fluid power — Filter elements — Verification of fabrication integrity and determination of the first bubble point

*Transmissions hydrauliques — Éléments filtrants — Vérification de la
conformité de fabrication et détermination du point de première bulle*



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Foreword

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This document was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 6, *Contamination control*.

This fifth edition cancels and replaces the fourth edition (ISO 2942:2004) which has been technically revised.

This revision permits the use of test fluids other than 2-propanol for determination of fabrication integrity. Specifically:

- a) in 4.2, acceptable test fluids for determination of fabrication integrity are defined;
- b) in 5.2.1, a formula to calculate the minimum allowed fabrication integrity pressure for an element in the test liquid is provided;
- c) in 5.3.1, a formula is provided to calculate the pressure normalized to the surface tension of 2-propanol;
- d) in Annex A, the manufacturer's minimum specified fabrication integrity is now listed, as well as the first bubble point in the test liquid and the normalized first bubble point; and
- e) in Annex B, the theoretical underpinning for relating bubble point data obtained in one fluid to the bubble point that would be obtained using a different fluid is presented.

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