

# Material Datasheet — Flanged Levels (General)

## Overview

- Disc-type levels with mounting flange for panel/fixture installation.
- Robust housing options with clear visibility of bubble and graduations.
- Commonly used on instruments, enclosures, and hinge-adjacent panels.

## Construction & materials (general)

Item	Details
Vial material	Borosilicate glass, stress-relieved; baked ceramic graduation lines
Liquid	Stable optical liquid; typical colours: green / yellow-green; others available
Housing/body options	Acrylic or polycarbonate bodies; metal carriers or frames where applicable
Sealing / end closures	Standard end-seals or heat-sealed ampoules depending on vial type
Marking/readability	Graduation spacing suited to sensitivity; clear viewing window

## Performance & sensitivity (UK terminology)

Sensitivity is the angle required to move the bubble by 2 mm.

It is commonly expressed in arcminutes (′ per 2 mm)

## Comparison Guideline

Nominal sensitivity	Arcminutes (′)	Equivalent (mm/m)	Notes
High sensitivity	7′ per 2 mm	2.04 mm/m (per 2 mm bubble travel)	Indicative; final readability depends on vial length and graduation.
Medium-high	10′ per 2 mm	2.91 mm/m (per 2 mm bubble travel)	Indicative; final readability depends on vial length and graduation.
General purpose	15′ per 2 mm	4.36 mm/m (per 2 mm bubble travel)	Indicative; final readability depends on vial length and graduation.



## **Environmental & durability (general)**

- Avoid impact/shock; glass vials are precision components.
- Use within stated service temperatures; thermal drift increases near the limits.
- Protect from aggressive solvents; clean with mild agents.
- Store horizontally and protect from prolonged UV exposure where applicable.