

ISO 3452-2:2013-11 (E)

Non-destructive testing - Penetrant testing - Part 2: Testing of penetrant materials

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification	2
4.1	Testing products	2
4.2	Sensitivity levels	2
5	Testing of penetrant materials	3
5.1	Personnel	3
5.2	Testing facilities	3
5.3	Reporting	3
5.4	Tests	4
6	Test methods and requirements	5
6.1	Appearance	5
6.2	Penetrant system sensitivity	6
6.3	Density	12
6.4	Viscosity	12
6.5	Flashpoint	12
6.6	Washability (Method A penetrants)	13
6.7	Fluorescent brightness	13
6.8	UV stability	13
6.9	Thermal stability of fluorescent brightness	14
6.10	Water tolerance	14
6.11	Corrosive properties	14
6.12	Content of sulfur and halogens (for products designated low in sulfur and halogens)	18
6.13	Residue on evaporation/solid content	19
6.14	Penetrant tolerance	19
6.15	Developer performance	19
6.16	Re-dispersability	19
6.17	Density of carrier liquid	20
6.18	Product performance (pressurized containers)	20
6.19	Particle size distribution	20
6.20	Water content	20
7	Packaging and labelling	20
Annex A (normative)	Comparison of fluorescent brightness	21
Annex B (informative)	Equipment for determination of the visibility of fluorescent indications	23
Bibliography		24