

ISO 4645:2022-05 (E)

Rubber and rubber products - Identification of antidegradants - Thin layer chromatographic methods

Contents		Page
Foreword		iv
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Principle		1
5 Reagents		2
6 Apparatus		4
7 Preparation of developing tank and plates		5
7.1 Preparation of developing tank		5
7.2 Preparation of plates		5
7.3 Preparation of pre-coated plates		6
8 Preparation of test portion		6
9 Plate spotting		6
9.1 General		6
9.2 Quantity of solution to apply		6
9.3 Spotting technique		6
10 Plate development		7
10.1 Method A		7
10.2 Method B		7
11 Colour development on the plate		7
12 Expression of results		7
12.1 Method A		7
12.1.1 For amine type antidegradants		7
12.1.2 For phenolic type antidegradants		8
12.2 Method B		8
12.3 Confirmation tests		8
13 Standard chromatograms		8
14 Test report		9
Annex A (informative) Preliminary spot tests		10
Annex B (informative) Example procedure when oil is present		12