

ISO 8332:2006-10 (E)

Rubber compounding ingredients - Sulfur - Methods of test

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Physical and chemical properties	1
4	Determination of total sulfur content	2
4.1	Principle	2
4.2	Reagents	2
4.3	Procedure	2
4.4	Expression of results	3
4.5	Precision result	3
5	Determination of sieve residue	4
5.1	Principle	4
5.2	Wet procedure	4
5.3	Dry procedure	7
6	Determination of oil content of oil-treated sulfur	9
6.1	Principle	9
6.2	Hexane procedure	9
6.3	Sulfur-saturated hexane procedure	10
7	Determination of insoluble-sulfur content	11
7.1	Principle	11
7.2	Reference procedure using toluene	11
7.3	Alternative procedure using carbon disulfide	12
8	Determination of thermal reversion of insoluble sulfur	13
8.1	General	13
8.2	Method A	13
8.3	Method B	16
8.4	Precision	19
9	Determination of loss in mass at 80 °C	20
9.1	Principle	20
9.2	Apparatus	20
9.3	Procedure	20
9.4	Expression of the results	21
9.5	Precision results	21
10	Determination of ash at 850 °C to 900 °C	22
10.1	Principle	22
10.2	Apparatus	22
10.3	Procedure	22
10.4	Expression of the results	22
10.5	Precision results	23

11	Test report	23
Annex A (informative)	Typical values of the properties of sulfur used as a rubber compounding ingredient	24
Annex B (informative)	Guidance for using precision results	26