

BS ISO 19242:2015



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Rubber — Determination of total sulfur content by ion chromatography

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National foreword

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

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Rubber — Determination of total sulfur content by ion chromatography

*Caoutchouc — Détermination de la teneur en soufre total par
chromatographie ionique*



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Foreword

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The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 2, *Testing and analysis*.

Introduction

Titration methods using thorin, a toxic arsenic compound as a reagent, have been used to determine the total sulfur content in raw rubber and rubber compounds. In this International Standard the sulfur in a test piece is burnt and oxidized to sulfur dioxide, which is then absorbed into a hydrogen peroxide solution and converted to sulfuric acid for determination by ion chromatography.

No hazardous reagents are required, thus improving the working environment as well as being eco-friendly. In addition, ion chromatography is used worldwide for its simplicity and high accuracy.

