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**Optics and photonics — Optical  
materials and components —  
Specification of calcium fluoride used  
in the infrared spectrum**

*Optique et photonique — Matériaux et composants optiques —  
Spécification de fluorure de calcium utilisé dans le spectre infrarouge*

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# Contents

	Page
Foreword .....	iv
Introduction .....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 Tolerances .....</b>	<b>2</b>
4.1 Refractive index variation .....	2
4.2 Optical homogeneity (homogeneity of refractive index) .....	3
4.3 Bubbles and inclusions .....	3
<b>5 Indications .....</b>	<b>3</b>
<b>Annex A (informative) The nominal refractive index of calcium fluoride .....</b>	<b>4</b>
<b>Bibliography .....</b>	<b>5</b>

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This document was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 3, *Optical materials and components*.

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## Introduction

This document applies to the classification of calcium fluoride used in the infrared spectrum.

Calcium fluoride is used for infrared optical systems such as optical windows and lenses. The specifications for its use in the infrared spectrum are different than those used in the visible range.

The crystal structure of calcium fluoride is referred to as the fluorite structure. A single crystal of calcium fluoride is composed of the crystal lattice with no grain boundaries. The birefringence of the crystal depends on the light propagation direction with respect to the crystal axis.

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