ISO 19383:2026-06 (E)

Atomic layer deposition - Chemical characteristics and related process specifications of atomic layer deposition precursors

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Classification of ALD precursors 2
4.1 General 2
4.2 Common ALD precursors for metals 2
4.3 Common ALD precursors for non-metals 3

5 Purity tests 4
5.1 Assay test 4
5.1.1 General 4
5.1.2 Metal-organic precursors 4
5.1.3 Non-metal precursors 5
5.2 Metal purity (N values) 5
5.3 Anion content 6

Annex A (informative) Precursor purity vs. ALD growth rate 8

Annex B (informative) Precursor purity vs. ALD film uniformity 11