

ISO 5490:2025-09 (E)

Steel - Rating and classifying nonmetallic inclusions using the scanning electron microscope

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principles	2
5	Equipment and software	4
6	Calibration and inspection of equipment	5
7	Sampling	5
8	Preparation of specimens	5
9	Procedure	5
10	Rating and statistical analysis of inclusions	7
10.1	Rating method	7
10.1.1	Morphology rating method	7
10.1.2	Chemistry rating method	8
10.2	Statistical analysis method	9
11	Test report	10
Annex A (informative) Typical acquisition analysis rules to be set for SEM analysis		11
Annex B (informative) Example of test results using morphology rating method		12
Annex C (informative) Examples of test results using statistical analysis method		14
Bibliography		19