

ISO 13503-8:2025-06 (E)

Oil and gas industries including lower carbon energy - Completion fluids and materials - Part 8: Measurement of properties of coated proppants used in hydraulic fracturing

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Sampling procedures for coated proppants	1
4.1 General	1
4.2 Particle segregation	2
4.3 Equipment	2
4.4 Number of coated proppant samples — bulk	5
4.5 Sampling — bulk coated proppants	5
4.6 Sampling — bagged coated proppants	5
4.6.1 Bags up to 50 kg each	5
4.6.2 Totes, bulk bags or super-sags weighing up to 2 000 kg each	5
5 Samples handling and storage	6
5.1 Sample reduction	6
5.2 Sample splitting	6
5.3 Sample record retention and storage	6
6 Performance test on precured coated proppants	6
6.1 Dispersion rate	6
6.1.1 Purpose	6
6.1.2 Description	6
6.1.3 Equipment and materials	6
6.1.4 Sample preparation	7
6.1.5 Procedures	8
6.2 Wear loss	8
6.2.1 Purpose	8
6.2.2 Description	8
6.2.3 Equipment and materials	8
6.2.4 Procedures	9
7 Performance test on curable coated proppants	10
7.1 Thermal tensile strength	10
7.1.1 Purpose	10
7.1.2 Description	10
7.1.3 Equipment and materials	10
7.1.4 Procedures	10
7.2 Curable melting point	11
7.2.1 Purpose	11
7.2.2 Description	11
7.2.3 Equipment and materials	11
7.2.4 Procedures	12
7.3 Compressive strength	12
7.3.1 Purpose	12
7.3.2 Description	12

7.3.3	Equipment and materials	12
7.3.4	Procedures.....	12
Annex A	(Informative) Sieve calibration.....	14
Annex B	(Informative) The wear device and formula.....	17
Annex C	(Informative) Core preparation unit.....	19
Annex D	(Informative) Core preparation method	25
Bibliography	28