ISO/TR 21916:2021 (E)

Solid recovered fuels — Guidance for the specification of solid recovered fuels (SRF) for selected uses

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions and abbreviations

3.1 Terms and definitions
3.2 Symbols and abbreviated terms

4 Compilation, structure and use of data

5 SRF and other waste derived fuels

5.1 General
5.2 Terms used for secondary fuels from waste
5.3 Rules for the classification and specification of SRF
5.4 Market for SRF and other waste-derived fuels

6 Coal co-combustion in the cement manufacturing industry

6.1 General
6.2 End use requirements of SRF and other waste derived fuels
6.2.1 Technical limitation of the technologies
6.2.2 Quality requirements in plant permits
6.2.3 Quality requirements in general guidelines
6.2.4 Quality requirements in voluntary end user specifications
6.3 Typical values for SRF

7 Coal co-combustion in power plants

7.1 General
7.2 End use requirements for SRF and other waste derived fuels
7.2.1 Technical limitations of the technologies
7.2.2 Quality requirements in plant permits
7.2.3 Quality requirements in general guidelines
7.2.4 Quality requirements in voluntary end user specifications
7.3 Typical values for SRF

8 Gasification

8.1 General
8.2 End use requirements for SRF and other waste derived fuels
8.2.1 Technical limitations of the technologies
8.2.2 Quality requirements in plant permits
8.2.3 Quality requirements in general guidelines
8.2.4 Quality requirements in voluntary end user specifications
8.3 Typical values for SRF

9 Conclusions and guidance

Annex A (informative) Background references on the production of SRF and other waste derived fuels

A.1 Input waste streams, processes, general references on the properties of SRF

Annex B (informative) Fuel specification: Provisions in national standards, legislation, plant permits. General and national guidelines. Voluntary specification by the end user

B.1 Provisions in national standards
B.2 Provisions in national legislations
B.3 Provisions in local plant permits
B.4 Orientation values in general or national guidelines
B.5 Voluntary end user specifications
B.6 Outcomes from the ISO surveys on the specification of solid recovered fuels

Annex C (informative) Background reference on technologies

C.1 Coal co-combustion in cement kilns
C.2 Coal co-combustion in power plants
C.3 Gasification

Annex D (informative) Typical values for SRF: background data and outcomes of a statistical assessment of measured values

D.1 Background data on typical values for SRF
D.2 Typical values: a statistical assessment of measured values
D.2.1 Source of data
D.2.2 Data selection and statistical analysis
D.2.3 Main outcomes of the statistical analysis of measured values
D.2.3.1 End use in cement kilns
D.2.3.2 End use in coal fired power plants
D.2.3.3 End use in gasification plants
D.2.4 Sources of measured values

Page count: 130