ISO/TR 19867-3:2018-10 (E)

Clean cookstoves and clean cooking solutions - Harmonized laboratory test protocols - Part 3: Voluntary performance targets for cookstoves based on laboratory testing

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Symbols and abbreviated terms 2

5 Default target values 2
5.1 General 2
5.2 Default performance tiers 3
5.3 Reporting the tiers 3

6 Technical basis and guidance for implementation 5
6.1 General 5
6.2 Thermal efficiency 5
6.2.1 Definition of tier categories for thermal efficiency 5
6.2.2 Empirical basis for tiers 5
6.2.3 Fuel efficiency based on thermal efficiency 6
6.3 Pollutant emissions 6
6.3.1 Linking emissions rates of PM2,5 and CO to health risks: the emissions model 6
6.3.2 Fine particulate matter (PM2,5) 8
6.3.3 Carbon monoxide (CO) 11
6.4 Safety 14
6.4.1 Application of targets 14
6.4.2 Definition of tier categories for safety 14
6.4.3 Empirical basis for tiers 14
6.5 Durability 14
6.5.1 Definition of tiers for durability 14
6.5.2 Empirical basis for tiers 14
6.6 Selecting relevant tiers and customizing performance targets 15
6.6.1 Strategy for selecting or customizing tiered health-based performance targets across diverse communities 15
6.6.2 Option for changing inputs to model 15

Bibliography 16