

# ISO 8178-5:2008-10 (E)

## Reciprocating internal combustion engines - Exhaust emission measurement - Part 5: Test fuels

---

Contents	Page
<b>Foreword .....</b>	<b>iv</b>
<b>Introduction .....</b>	<b>v</b>
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>3</b>
<b>4 Symbols and abbreviations .....</b>	<b>4</b>
<b>5 Choice of fuel .....</b>	<b>5</b>
<b>5.1 General .....</b>	<b>5</b>
<b>5.2 Influence of fuel properties on emissions from compression ignition engines .....</b>	<b>6</b>
<b>5.3 Influence of fuel properties on emissions from spark ignition engines .....</b>	<b>8</b>
<b>6 Overview of fuels .....</b>	<b>9</b>
<b>6.1 Natural gas .....</b>	<b>9</b>
<b>6.2 Liquefied petroleum gas .....</b>	<b>9</b>
<b>6.3 Motor gasolines .....</b>	<b>10</b>
<b>6.4 Diesel fuels .....</b>	<b>10</b>
<b>6.5 Distillate fuel oils .....</b>	<b>10</b>
<b>6.6 Residual fuel oils .....</b>	<b>11</b>
<b>6.7 Crude oil .....</b>	<b>11</b>
<b>6.8 Alternative fuels .....</b>	<b>11</b>
<b>6.9 Requirements and additional information .....</b>	<b>11</b>
<b>Annex A (informative) Calculation of the fuel specific factors .....</b>	<b>24</b>
<b>Annex B (informative) Equivalent non-ISO test methods .....</b>	<b>29</b>
<b>Annex C (informative) Organizations capable of providing specifications for commercial fuels .....</b>	<b>31</b>
<b>Bibliography .....</b>	<b>32</b>