

# DIN EN ISO 11114-2:2013-07 (E)

## Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 2: Non-metallic materials (ISO 11114-2:2013)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>5</b>
<b>4</b>	<b>Materials .....</b>	<b>6</b>
<b>4.1</b>	<b>General .....</b>	<b>6</b>
<b>4.2</b>	<b>Types of material .....</b>	<b>6</b>
<b>5</b>	<b>General considerations .....</b>	<b>7</b>
<b>6</b>	<b>Specific considerations .....</b>	<b>8</b>
<b>6.1</b>	<b>General .....</b>	<b>8</b>
<b>6.2</b>	<b>Non-compatibility risks .....</b>	<b>8</b>
<b>6.2.1</b>	<b>Violent reaction (oxidation/burning) (F) .....</b>	<b>8</b>
<b>6.2.2</b>	<b>Weight loss (W) .....</b>	<b>9</b>
<b>6.2.3</b>	<b>Swelling of material (S) .....</b>	<b>10</b>
<b>6.2.4</b>	<b>Change in mechanical properties (M) .....</b>	<b>10</b>
<b>6.2.5</b>	<b>Other compatibility considerations .....</b>	<b>10</b>
<b>7</b>	<b>Compatibility data .....</b>	<b>11</b>
<b>7.1</b>	<b>Table of compatibility .....</b>	<b>11</b>
<b>7.2</b>	<b>Symbols and abbreviations .....</b>	<b>12</b>
<b>7.2.1</b>	<b>Symbols for compatibility .....</b>	<b>12</b>
<b>7.2.2</b>	<b>Abbreviations for materials .....</b>	<b>12</b>
<b>7.2.3</b>	<b>Abbreviations for non-compatibility risks .....</b>	<b>13</b>
<b>7.2.4</b>	<b>Examples .....</b>	<b>13</b>
<b>Bibliography .....</b>		<b>18</b>