

# ISO/IEC 7811-2:2014-08 (E)

## Identification cards - Recording technique - Part 2: Magnetic stripe - Low coercivity

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Conformance .....</b>	<b>1</b>
<b>3</b>	<b>Normative references .....</b>	<b>1</b>
<b>4</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>5</b>	<b>Physical characteristics of the identification card .....</b>	<b>3</b>
<b>5.1</b>	<b>Magnetic stripe area warpage .....</b>	<b>3</b>
<b>5.2</b>	<b>Surface distortions .....</b>	<b>3</b>
<b>6</b>	<b>Physical characteristics of the magnetic stripe .....</b>	<b>4</b>
<b>6.1</b>	<b>Height and surface profile of the magnetic stripe area .....</b>	<b>4</b>
<b>6.2</b>	<b>Surface roughness .....</b>	<b>7</b>
<b>6.3</b>	<b>Adhesion of stripe to card .....</b>	<b>7</b>
<b>6.4</b>	<b>Wear of magnetic stripe from read/write head .....</b>	<b>7</b>
<b>6.5</b>	<b>Resistance to chemicals .....</b>	<b>7</b>
<b>7</b>	<b>Performance characteristics for the magnetic material .....</b>	<b>7</b>
<b>7.1</b>	<b>General .....</b>	<b>7</b>
<b>7.2</b>	<b>Testing and operating environment .....</b>	<b>7</b>
<b>7.3</b>	<b>Signal amplitude requirements for magnetic media .....</b>	<b>7</b>
<b>8</b>	<b>Encoding technique .....</b>	<b>8</b>
<b>9</b>	<b>Encoding specification, general .....</b>	<b>9</b>
<b>9.1</b>	<b>Angle of recording .....</b>	<b>9</b>
<b>9.2</b>	<b>Nominal bit density .....</b>	<b>10</b>
<b>9.3</b>	<b>Signal amplitude requirements for tracks 1, 2 and 3 .....</b>	<b>10</b>
<b>9.4</b>	<b>Bit configuration .....</b>	<b>11</b>
<b>9.5</b>	<b>Direction of recording .....</b>	<b>11</b>
<b>9.6</b>	<b>Leading and trailing zeroes .....</b>	<b>11</b>
<b>10</b>	<b>Encoding specifications .....</b>	<b>11</b>
<b>10.1</b>	<b>Alphanumeric track, track 1 .....</b>	<b>11</b>
<b>10.2</b>	<b>Numeric track, Track 2 .....</b>	<b>14</b>
<b>10.3</b>	<b>Numeric track, Track 3 .....</b>	<b>16</b>
<b>11</b>	<b>Error detection .....</b>	<b>16</b>
<b>11.1</b>	<b>Parity .....</b>	<b>17</b>
<b>11.2</b>	<b>Longitudinal redundancy check (LRC) .....</b>	<b>17</b>
<b>12</b>	<b>Location of encoded tracks .....</b>	<b>17</b>
<b>Annex A (informative) Read compatibility of magnetic stripes -- ISO/IEC 7811-2 and ISO/ IEC 7811-6</b> .....		<b>19</b>
<b>Annex B (informative) Magnetic stripe abrasivity .....</b>		<b>20</b>