

# DIN EN ISO 12004-1:2021-02 (E)

**Metallic materials - Determination of forming-limit curves for sheet and strip - Part 1: Measurement and application of forming-limit diagrams in the press shop (ISO 12004-1:2020)**

---

<b>Contents</b>	<b>Page</b>
European foreword .....	3
Foreword .....	4
Introduction .....	5
1 <b>Scope</b> .....	6
2 <b>Normative references</b> .....	6
3 <b>Terms and definitions</b> .....	6
4 <b>Symbols and abbreviated terms</b> .....	6
5 <b>Principle</b> .....	6
6 <b>Test conditions</b> .....	7
7 <b>Procedure</b> .....	8
8 <b>Interpretation of results</b> .....	8
9 <b>Test report</b> .....	9
<b>Annex A (informative) Modification to forming-limit curves</b> .....	10
<b>Annex B (informative) Examples of grid patterns currently in use</b> .....	11
<b>Bibliography</b> .....	13