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Heat treatment — Control of quality

Traitement thermique — Maîtrise de la qualité



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Foreword

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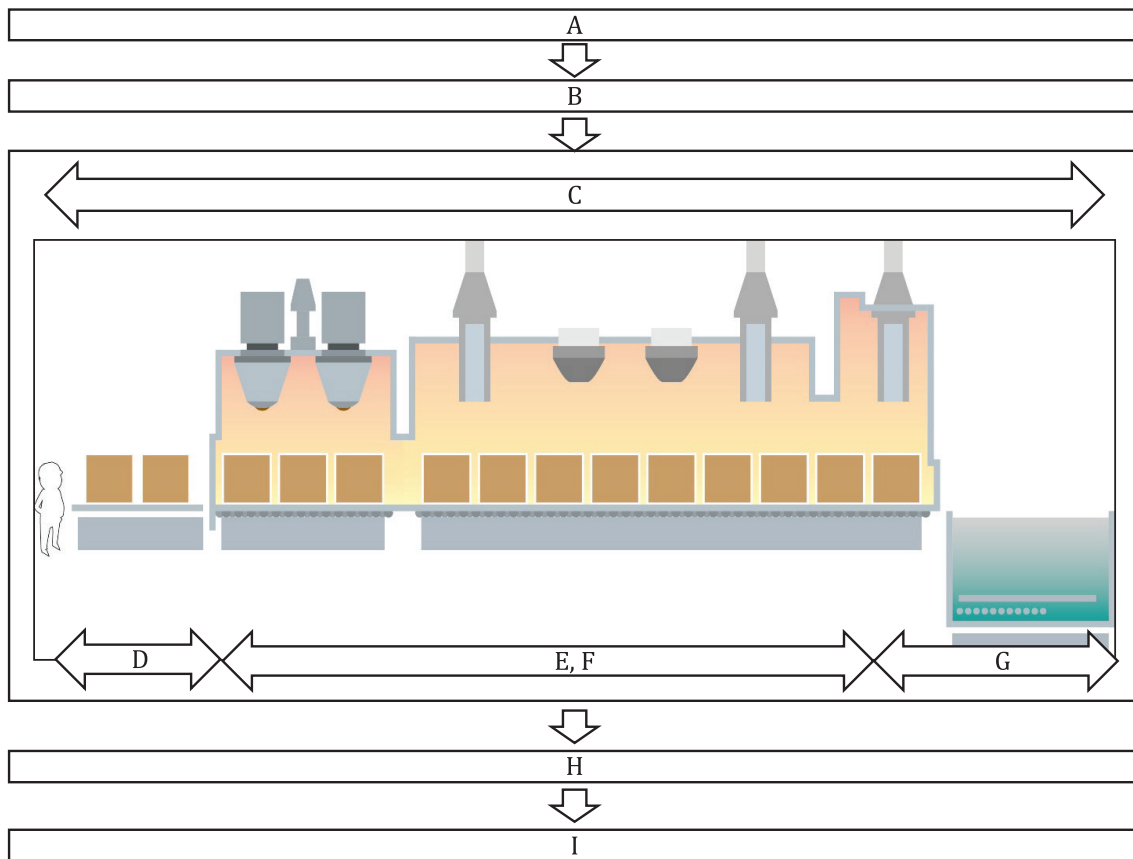
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Introduction

This document draws a list of best practices in order to ensure quality control in the application of heat treatment. This document is for use with equipment constructed in accordance with International Standards for thermoprocessing equipment. These concepts are also suitable for application with other heat-treatment processes.

This document is a reference for assessment and continuous improvement which is part of the quality management system of a heat-treatment facility.

Figure 1 shows the typical flowchart for a heat-treatment process. The main steps are subject to requirements and recommendations in this document.



Key

- | | | | |
|---|---|---|--|
| A | general organisation of a heat-treatment facility (see 5.1) | F | control of the heat-treatment medium (see 5.5) |
| B | contract review and heat-treatment conception (see 5.2) | G | control of cooling (see 5.6) |
| C | carrying out the heat treatment | H | control of product testing (see 5.7) |
| D | preparation (see 5.3) | I | finishing (see 5.8) |
| E | control of the thermal cycle (see 5.4) | | |

Figure 1 — Heat-treatment process