

# DIN EN ISO 21904-1:2020-06 (E)

## Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 1: General requirements (ISO 21904-1:2020)

---

<b>Contents</b>	<b>Page</b>
European foreword .....	3
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC aimed to be covered .....</b>	<b>4</b>
Foreword .....	5
Introduction .....	6
<b>1 Scope .....</b>	<b>7</b>
<b>2 Normative references .....</b>	<b>7</b>
<b>3 Terms and definitions .....</b>	<b>8</b>
<b>4 Significant hazards .....</b>	<b>10</b>
<b>5 Requirements and verifications .....</b>	<b>10</b>
5.1 General .....	10
5.2 Extraction devices .....	13
5.3 Ducting properties .....	18
5.4 Filters, related components and handling .....	19
<b>6 Instructions for use .....</b>	<b>22</b>
6.1 General .....	22
6.2 Extraction devices .....	23
6.2.1 Captor hoods and nozzles .....	23
6.2.2 On-torch extraction systems .....	23
<b>7 Marking .....</b>	<b>24</b>
7.1 General marking .....	24
7.2 Marking of separation efficiency .....	24
7.3 Marking of captor hoods and nozzles .....	24
7.4 Marking of on-torch extraction systems .....	25
<b>Annex A (informative) Malfunctions and determination of minimum airflow .....</b>	<b>26</b>
<b>Annex B (normative) Label for welding fume separation equipment .....</b>	<b>27</b>
<b>Bibliography .....</b>	<b>28</b>