DIN EN ISO 8504-5:2026-11 (E)

Preparation of steel substrates before application of paints and related products - Surface preparation methods - Part 5: Water jet cleaning (ISO 8504-5:2024)

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Health and safety **2**
4.1 General requirements 2

5 Consideration of water jetting pressure and flow parameters **2**
5.1 General 2
5.2 Methods 2
5.2.1 General 2
5.2.2 Cleaning with low-pressure water (LP WC) 3
5.2.3 Cleaning with high-pressure water (HP WC) 3
5.2.4 Cleaning with high-pressure water jetting (HP WJ) 3
5.2.5 Cleaning with very high-pressure water jetting (VHP WJ) 3
5.2.6 Cleaning with ultra high-pressure water jetting (UHP WJ) 4

6 Components **4**
6.1 General 4
6.2 Pump 5
6.3 Hose and fittings 5
6.4 Water path 5
6.5 Vacuum recovery 5
6.6 Water quality 5
6.7 Manual guns 5
6.8 Remote gun or wall-deck cleaning heads 5
6.9 Nozzle 6
6.10 Containment (management of water) 6

7 Systems **6**
7.1 Continuous system 6
7.2 Pulsed (disrupted) system 6

8 System operation **6**
8.1 General 6
8.2 Interactive parameters for productivity 7
8.3 Additives 7
8.4 Maintenance coating work 8
8.5 Maintenance of pump 8
8.6 Pressure drop in the hydraulic system 8
8.7 Positioning of the gun 8

9 Procedure **8**
9.1 Preparation before water jetting 8
9.2 During water jetting 8
9.2.1 Selection of initial condition 8
9.2.2 Selection of preparation grade 9
9.2.3 Selection of water jetting method 9
9.2.4 Selection of water jetting system 9
9.3 After water jetting and before applying coatings 9

10 Assessment of the cleaned surface **9**
10.1 Selection of preparation grade 9
10.2 Field test 9
10.3 Organic contaminants 10
10.4 Visual 10
10.4.1 Visual assessment of preparation grade 10
10.4.2 Flash rust 10
10.5 Non-visible inorganics contaminants 10
10.6 Third-party representation 10
10.7 Conformity 10

Annex A (normative) **Pressure levels** **11**

Annex B (informative) **High-pressure /Ultra high-pressure water jetting: theoretical and practical information** **12**

Annex C (informative) **Flash rust guidance** **14**

Bibliography **15**