

# DIN EN ISO 14917:2017-08 (E)

## Thermal spraying - Terminology, classification (ISO 14917:2017)

---

### Contents

Page

|   |    |
|---|----|
| Foreword .....  | 5  |
| 6.2.4 Contact tube .....  | 23 |
| 6.2.5 Wire feed mechanism .....   | 24 |
| 6.2.6 Powder feeder .....   | 24 |
| 6.2.7 Powder injector .....   | 24 |
| 6.3 Process specific terms of thermal spraying, terms .....   | 24 |
| 6.3.1 Spray material .....  | 24 |
| 6.3.2 Carrier gas .....   | 24 |
| 6.3.3 Atomizing gas .....   | 24 |
| 6.3.4 Propellant gas .....  | 24 |
| 6.3.5 Spray jet .....   | 24 |
| 6.3.6 Spray particles .....   | 24 |
| 6.3.7 Splat .....   | 24 |
| 6.3.8 Spray deposit .....   | 24 |
| 6.3.9 Spray distance .....  | 24 |
| 6.3.10 Spray angle .....  | 24 |
| 6.3.11 Spray velocity .....   | 25 |
| 6.3.12 Spray trace overlapping .....  | 25 |
| 6.3.13 Spray spot .....   | 25 |
| 6.3.14 Deposition rate .....  | 25 |
| 6.3.15 Spray losses .....   | 25 |
| 6.3.16 Deposition efficiency .....  | 25 |
| 6.3.17 Masking .....  | 25 |
| 6.3.18 Sealing .....  | 25 |
| 6.3.19 Thermal treatment .....  | 25 |
| 6.3.20 Fusing of sprayed deposits .....   | 25 |
| 6.4 Coating specific terms .....  | 25 |
| 6.4.1 Sprayed coating .....   | 25 |
| 6.4.2 Substrate .....   | 26 |
| 6.4.3 Bond coat .....   | 26 |
| 6.4.4 Top coat .....  | 26 |
| 6.4.5 Interface .....   | 26 |
| 6.4.6 Non-melted particles .....  | 26 |
| 6.4.7 Re-solidified particles .....   | 26 |
| 6.5 Properties of thermally sprayed deposits, terms .....   | 26 |
| 6.5.1 Tensile adhesive strength, RH .....   | 26 |
| 6.5.2 Cohesive strength .....   | 26 |
| 6.5.3 Hardness .....  | 26 |
| 6.5.4 Shear load resistance .....   | 27 |
| 6.5.5 Other properties .....  | 27 |
| Annex A (informative) Master chart of thermal spraying processes -- Classification according to the energy carriers used for spraying ..... | 28 |
| Annex B (informative) Keyword index .....   | 29 |
| Bibliography .....  | 31 |