DIN CEN/TR 15339-3:2020-11 (E)

Thermal spraying - Safety requirements for thermal spraying equipment - Part 3: Torches for thermal spraying and their connection and supply units

Contents

Page

		3
1	Scope	4
2	Normative references	4
3	Function of thermal spraying equipment	4
3.1	General	4
3.2	Safety related features of the spray torches and their connections	5
3.2.1	Spray torches for flame and HVOF spraying	5
3.2.2	Spray torches for cold spraying	5
3.2.3	Spray torches for arc spraying	5
3.2.4	Spray torches for plasma spraying	5
3.3	Safety related features of the ignition unit	6
3.4	Safety related features of the power source	6
4	Potential hazards	6
4.1	General	6
4.2	Flame and HVOF spraying	6
4.3	Cold spraying	7
4.4	Arc spraying	7
4.5	Plasma spraying	7
5	Safety requirements - Protection measures	7
5.1	General safety requirements and measures	7
5.2	Safety requirements and protection measures for flame and HVOF spraying	8
5.3	Safety requirements and protection measures for cold spraying	8
5.4	Safety requirements and protection measures for arc and plasma spraying	8
5.5	Safety requirements related to electrical and water connections to and in the junction and monitoring box	9
5.6	Safety requirements for power sources	9
6	Requirements for manufacture, supply, operation, and maintenance	9
6.1	Requirements for the manufacturer	9
6.2	Requirements for the integrator	9
6.3	Requirements for the user	9
7	National rules	9
Bibliography		10