

WELDING PROTECTION

Safety Standards Guide

When a flame or spark comes into contact with the surface of the FR fabric, it forms a charred area which helps to insulate the wearer from the heat. Within 2 seconds any flame or glow will extinguish and the charred area will turn brittle as it cools. Repeat occurrence of charred areas will deteriorate the garment

and compromise the safety of the wearer. It should therefore be replaced immediately.

It is recommended that primary PPE such as aprons and gauntlets must be used during welding operations. Welding garments are considered secondary protection.

Buying Guide – Welding Information

EN20471, EN Standard for High-Visibility Clothing.

REQUIREMENT	CLASS 1	CLASS 2
Impact of Spatter	15 drops	25 drops
Heat transfer (radiation)	RHTI 24≥7 seconds	RHTI 24≥16 seconds

Type of welders clothing	Selection criteria relating to the process		Selection criteria relating to the environmental conditions
CLASS 1	Manual welding techniques with light formation of spatters and drops, e.g.:		Operation of machines, e.g. of: <ul style="list-style-type: none">• Oxygen cutting machines• Plasma cutting machines• Resistance welding machines• Machines for thermal spraying• Bench welding
	<ul style="list-style-type: none">• Gas Welding• TIG welding• MIG welding• Micro plasma welding	<ul style="list-style-type: none">• Brazing• Spot welding• MMA welding (with rutile-covered electrode)	
CLASS 2	Manual welding techniques with heavy formation of spatters and drops, e.g.:		Operation of machines, e.g. of: <ul style="list-style-type: none">• In confined spaces• At overhead welding/cutting or in comparable constrained positions
	<ul style="list-style-type: none">• MMA Welding (with basic or cellulose-covered electrode)• MAG welding (with CO² or mixed gases)• MIG welding (with high current)• Self shielded flux core arc welding	<ul style="list-style-type: none">• Plasma cutting• Gouging• Oxygen cutting• Thermal spraying	

Safety Symbols Guide



EN ISO 11612:2015:
Protective Clothing to protect against heat and flame.



EN ISO 11611:2015:
Protective clothing for use in welding and allied processes.

Class 1: For protection against less hazardous welding techniques and situations, causing lower levels of spatter and radiant heat.

Class 2: For protection against more hazardous welding techniques and situations, causing higher levels of spatter and radiant heat.

