

WELDING PROCESSES

Abbreviations for Processes:

The following abbreviations show the relation between the ISO designation, the process abbreviations used in Europe and those used in the USA.

ISO 4063	European (EA) and American (AA) abbreviations		Full Process name
111	EA	MMA	Manual Metal Arc Welding
	AA	SMAW	Shielded Metal Arc Welding
114	EA	FCAW	Flux-cored wire metal arc welding
	AA	FCAW	Flux-cored arc welding
12	EA	SAW	Submerged Arc Welding
	AA	SAW	Submerged Arc Welding
13	EA	GMAW	Gas Shielded Metal Arc Welding
	AA	GMAW	Gas Metal Arc Welding
131	EA	MIG	Metal-arc Inert Gas Welding
	AA	GMAW	Gas Metal Arc Welding
135	EA	MAG	Metal-arc Active Gas Welding
	AA	GMAW	Gas Metal Arc Welding
136	EA	FCAW	Flux-cored wire metal-arc welding with active gas shield
	AA	FCAW	Flux-cored arc welding
137	EA	FCAW	Flux-cored wire metal-arc welding with inert gas shield
	AA	FCAW-S	Flux-cored arc welding
141	EA	TIG	Tungsten Inert Gas Welding
	AA	GTAW	Gas Tungsten Arc Welding
21	EA		Spot Welding
	AA	RSW	Resistance Spot Welding
25	EA		Resistance Butt Welding
	AA	RSEW	Upset Welding
3	EA		Gas Welding
	AA	OFW	Oxy-fuel Gas Welding
311	EA		Oxy-acetylene Welding
	AA	OAW	Oxy-acetylene Welding
81	EA		Flame Cutting
	AA	OFC	Oxy-fuel Gas Cutting
86	EA		Flame Gouging
	AA		Thermal Gouging