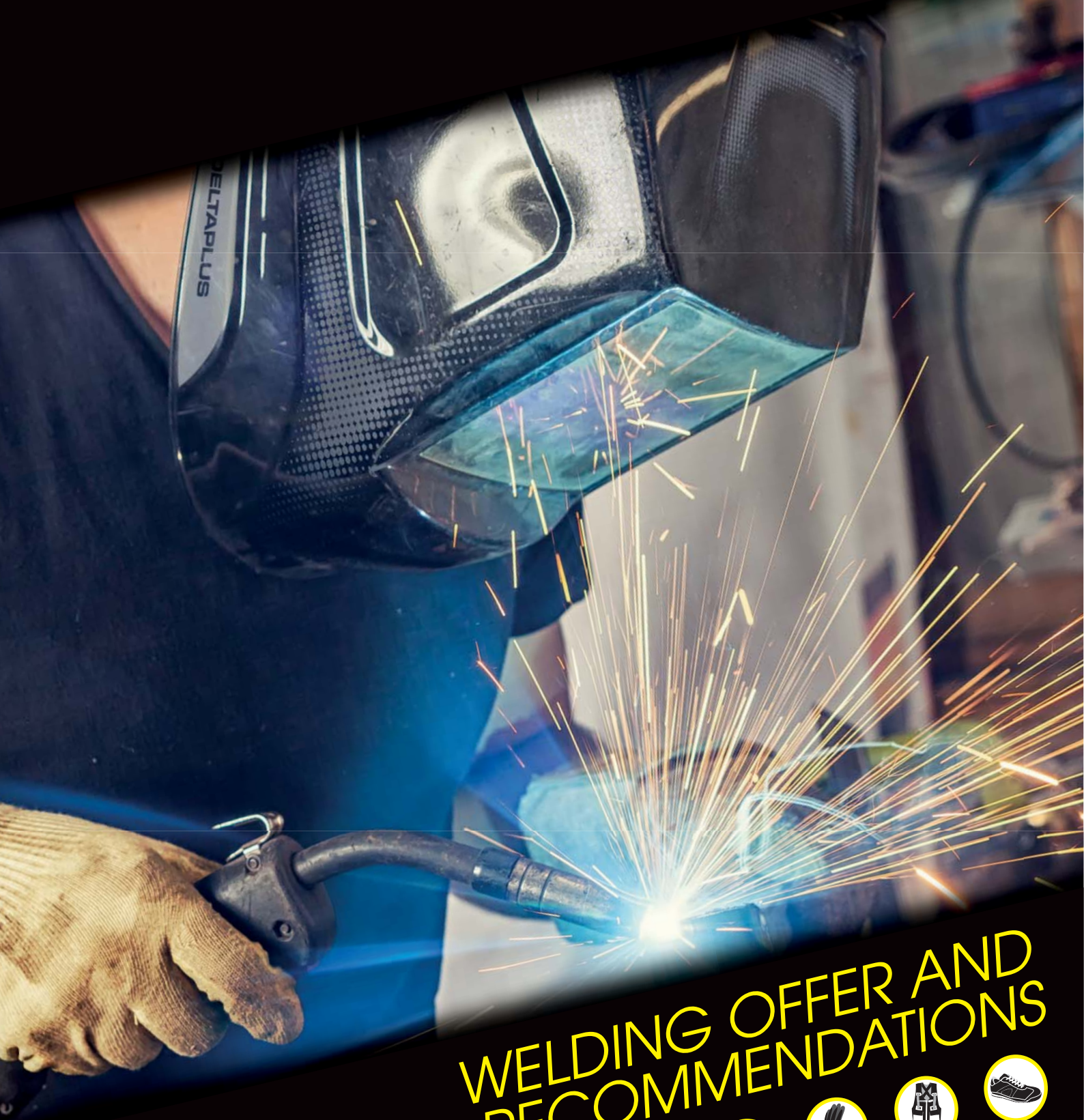




**DELTA PLUS**  
40 YEARS OF SAFETY



**WELDING OFFER AND  
RECOMMENDATIONS**



# WELDING SOLUTIONS

## by job

### BOILERMAKING

TIG / MIG / MAG

CASOUD3 P. 33

TIG15K P. 168



VESTEB P. 311

COBRA3 S3 SRC P. 355



### INDUSTRY

PLASMA (SHADE 4 TO SHADE 12) / LASER

PACAYA T5 P. 15

TERK400 P. 166



TASOUBCE P. 311

COBRA3 S3 SRC P. 355



TOBA 3 T5 P. 33



TER250 P. 167



MANCHB P. 311



COBRA3 S3 SRC P. 355



### PLUMBING

TORCH / TIG



BARRIER2 P. 30



CE  
EN166  
1F  
EN379  
1/1/1/2 / 4/5-9/9-13  
EN175  
F  
ANSI Z87.1  
Z87

SCREEN P. 32



CE  
EN166  
1F  
EN379  
1/1/1/2 / 4/9-13  
EN175  
F

SPIDERMASK P2W X5 P. 62



CE  
EN149

CASOUD2HE P. 33



CE  
EN166  
1F/S  
EN169  
11  
EN175  
S

CASOUD3 P. 33



CE  
EN166  
1F/F  
EN169  
11  
EN175  
F

M2FP2VPLW P. 66



CE  
EN149  
NIOSH N99

TOBA 3 T5 P. 33



CE EN166 1FT/FT EN169 UV5 EN175 F

PACAYA T5 P. 15



CE EN166 1FT/FT EN169 UV5

LIPARI2 T5 P. 21



CE EN166 FT/FT EN169 UV5 ANSI Z87.1 Z87+

TASOUBCE P. 311



CE EN11611 TYPE A1 CLASSE 2

VESTEB P. 311



CE EN11611 TYPE A1 CLASSE 2

PANTAB P. 311



CE EN11611 TYPE A1 CLASSE 2

MANCHB P. 311

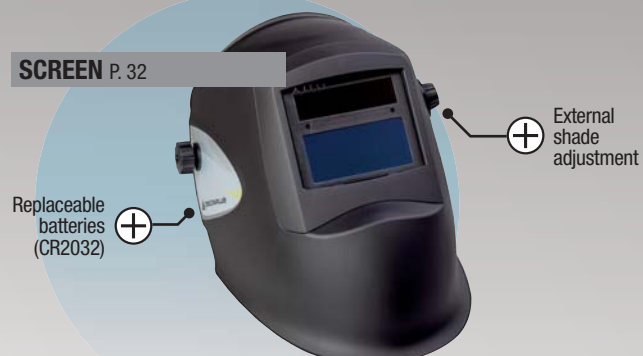


CE EN11611 TYPE A1 CLASSE 2

BARRIER2 P. 30



SCREEN P. 32







## METAL FRAME

MIG / MAG / MMA

CASOUD2HE P. 33



CA615K P. 169



MANCHB P. 311



COBRA3 S3 SRC P. 355



## METALWORK IRONWORK

MMA / TIG / MIG / TORCH

BARRIER2 P. 30



TC716 P. 168



PANTAB P. 311



COBRA3 S3 SRC P. 355



TERK400 P. 166



CE  
EN388  
4143  
EN407  
4,1,3,4,X,4  
EN12477  
TYPE A

TER250 P. 167



CE  
EN388  
4133  
EN407  
4,1,4,X,4,X  
EN12477  
TYPE A

TIG15K P. 168



CE  
EN388  
2121  
EN407  
4,1,X,X,4,X  
EN12477  
TYPE B

GFA115K P. 168



CE  
EN388  
2111  
EN407  
4,1,X,X,4,X  
EN12477  
TYPE B

FC115 P. 168



CE  
EN388  
2123X  
EN407  
4,1,2,X,4,X  
EN12477  
TYPE B

TC716 P. 168



CE  
EN388  
3133X  
EN407  
4,1,2,X,4,X  
EN12477  
TYPE A

CA615K P. 169



CE  
EN388  
3133  
EN407  
4,1,3,X,4,X  
EN12477  
TYPE A



## CAR BODYWORK

MMA / MIG / MAG

SCREEN P. 32



GFA115K P. 168



MANCHB P. 311



COBRA3 S3 SRC P. 355



COBRA3 S3 SRC P. 355



CE EN ISO 20349  
WG HI-1

EN ISO 20345  
S3 SRC



TIG15K P. 168

Flame  
resistant, heat  
resistant and  
big molten  
metal splash  
resistant



Goatskin leather:  
• Flexibility, dexterity  
• Good mechanical  
resistance

COBRA3 S3 SRC P. 355

Better arch  
support  
thanks to the  
internal elastic



Protective external flap  
with velcro fastening

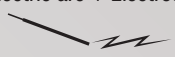







Protection  
against welding  
spatters

EN ISO 20349 2010  
standard - WG special welders



# WELDING TECHNOLOGY

Welding	MMA	MIG	MAG	TIG	Torch	Plasma	Laser
Process	Electric arc + Electrode 			Electric arc + Tungsten electrode 	Torch flame 	Electric arc + Electrode 	Laser ray 
Gas supply	None	Inert protective gas (Argon ou Helium)	Active protective gas (Argon/CO <sub>2</sub> or Argon/Oxygen)	Neutral gas (Argon)	Fuel gas (acetylene, propane, butane or methane) + Combustion gas (oxygen - hydrogen or natural gas)	Argon (main) + Hydrogen or Helium (annular)	None
	3,500°C to 7,000°C			3,500°C	3,150°C	15,000°C to 25,000°C	
Metal supply	Yes (melting electrode)	Yes (metal coil)		Yes (filler metal rod)	Yes	None	None
Examples of jobs using that process	Craftsmen, locksmiths, metal workers, coachbuilders	Steel structure, boilermaking, metalwork / ironworks, railway and naval construction		Boilermaking, metalwork / ironworks	Plumbers, heating engineers, cold storage, locksmiths	Aeronautics, light industry and pharmaceutical Industry	Light industry and pharmaceutical Industry
Materials	Steel, Stainless steel, Cast iron, Aluminum	Pure or weakly alloyed steel*	Stainless steel and copper alloys*	All type of metals (except light aluminium alloys*)	Copper, tin, brass, aluminum, zinc	Steels, stainless steel, aluminum and alloy*	Metals and plastics
Thickness	2 mm to 10 mm	0.5 mm to 10 mm		0.3 mm to 6 mm	Less than 2 mm	Micro plasma: 0.01 mm to 1 mm Plasma: 1 to 3 mm Unblocking spray plasma : 3 mm to 8 mm	2 mm to 8 mm
Features	Economical and good quality welding	High speed, regular and good quality welding bead		'Clean' welding, very high quality, slow process	Easy to settle, standalone device. Easy to learn but average aspect.	Quality welding (fine and precise). Possibility of automatic process, but rather slow. + Possibility to cut pieces	'Clean' and very high quality, but expensive welding process + Possibility to cut pieces in large series

An alloy is the combination of a metallic element with one or several other chemical elements by melting, with the aim of modifying the mechanical properties of the basic metal.

## Examples of known alloys:

- Cast iron: iron + carbon (between 2.1 and 6.7 % carbon mass)
- Steel: iron + carbon (less than 2.1 % carbon mass)
- Brass: copper + zinc
- Bronze: copper + tin

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[www.deltaplus.eu](http://www.deltaplus.eu)

  
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