

S0300-BV-CAT-010

UNDERWATER CUTTING AND WELDING KIT

System - S26100



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The Underwater Cutting and Welding Kit System S26100 consists of an Oxygen/Arcair Underwater Cutting and Welding Kit KT0558. The kit is used with a welding generator and compressed oxygen for underwater cutting. The kit contains an underwater cutting and welding torch with interchangeable collets, oxygen hoses, an oxygen regulator, welding cables, electrodes, welding rods, various fittings, and a 400-amp safety switch enclosed in a watertight box.

Compressed oxygen and the welding generator is normally supplied by the user. However, a 400-amp, dc, diesel-powered welding system (S29100) is available from ESSM Facility.

Welding with this kit should only be performed in the event of an emergency salvage repair operation.

System Components for S26100

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
KT0558	KIT, U/W CUTTING AND WELDING, OXYGEN/ARCAIR	BL	1		
Baseline not verified, * Not shown in catalog.					

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ESSM - KT0558 KIT, U/W CUTTING AND WELDING, OXYGEN/ARCAIR



Oxygen/Arcair U/W Cutting and Welding Kit KT0558

The Underwater Cutting and Welding Kit KT0558 contains the items required to perform underwater oxygen/arc air cutting and welding. The welding cables conduct electrical current from the welder to the Arc air torch via the manual welding switch. The cable connectors are designed to be watertight and used for underwater operation. During operation, current from the welding machine (supplied separately) is controlled from the surface, via the manual switch located within the switch box.

Welding with this kit should only be performed in the event of an emergency salvage repair operation.

Specifications		
Type	Description	Qty
Manufacture	ESSM Facility	
Model	KT0558	
The kit contains the following major items:		
Container, alum, 49" x 37" x 28":		1
Cable, 2/0, wld, w/std fem conn, 50'		1
Cable, 2/0, wld, w/std male conn, 50'		1
Cable, 2/0, wld, w/std M & F conn, 50'		8
Cable, ground, 2/0, 10'		1

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Specifications

Type	Description	Qty
Electrode, arc, 5/16" x 14" (50 per box)		3
Electrode, arc, 3/8" x 18" (50 per box)		1
Fitting, double male oxygen hose		4
Gloves, electrical safety, class 0		1
Hose, oxygen, 3/8" x 50'		4
Inventory, laminated		1
Manual, Arcair Underwater Arc-Cutting		1
Manual, USN UW Cutting & Welding		1
Mat, rubber, insul, 3' x 3', 30,000 V		1
Pigtail, copper, 12"		4
Regulator, oxygen		1
Switchbox, 480-V, 400-A, w/4 std conn		1
Tape, electrical, super 33T (roll)		3
Tape, electrical, vinyl		3
Tee, coupler		4
Tip, arcair, 3/16", for torch		1
Tip, arcair, 5/16", for torch		4
Tip, arcair, 5/32", for torch		1
Torch, arcair, UW, w/cbl and std m conn		1
Welding rods, 5/32" X 14" (8-LB)		1
Welding rods, 3/16" X 14" (8-LB)		1
Wrench, 9-way		1

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	4 ft, 0 in		
Width	2 ft, 6 in		
Height	2 ft, 11 in		
Cube	30 cu ft		
Footprint	10 sq ft		
Weight	650 lb		

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References

Ref No	Reference
1	Arcair Underwater Arc-Cutting Manual, 89-250-054 (7/94)
2	Arcair Underwater Products, Form No. 89-210-029
3	U.S. Navy Underwater Cutting and Welding Manual, NAVSEA S0300-BB-MAN-010