

**Technical data sheet**

011121MBA

**Cored welding wire**  
**TUBE S D750-G****CLASSIFICATION**

ASME IIC SFA 5.22 / AWS A 5.22:	EC2594
ASME IIC SFA 5.9 / AWS A 5.9:	EC2594
EN ISO 17633-A:	T 25 9 4 N L M I1 1
EN ISO 17633-B:	TS2594-M I1 1
UNS Number:	S32750
Equivalent Material Number:	1.4410
ASME IX Qualification	QW432 F-N° 6    QW442 A-N° 8

**DESCRIPTION**

- Metal cored super duplex stainless steel wire for gas shielded arc welding
- 25% chromium - 10% nickel - 4% molybdenum - low carbon - high nitrogen bearing deposit
- Enhanced productivity, improved weldability, better wetting properties compared to solid wires
- Excellent weld metal quality and X-ray soundness
- Nitrogen free classical shielding gases are used for welding

**APPLICATIONS**

Welding wrought, forged or cast super duplex stainless steels for service in the as-welded condition.  
Heterogeneous welding between super duplex stainless steels and other stainless and mild or low alloyed steels.

**Examples:**

UNS	Material number	EN Symbol
S32520	1.4507	X2 CrNiMoCuN 25-6-3
S32550	1.4507	X2 CrNiMoCuN 25-6-3
S32750	1.4410	X2 CrNiMoN 25-7-4
S39274, S39277, S39553		
	1.4468	GX2 CrNiMoN 25-6-3
	1.4515	GX2 CrNiMoCuN 26-6-3
	1.4517	GX2 CrNiMoCuN 25-6-3-3
S32760	1.4501	X2 CrNiMoCuWN 25-7-4

**TYPICAL ALL-WELD METAL ANALYSIS (Argon shielding)**

C	Mn	Si	Cr	Ni	Mo	N	S	P
0.025	1.00	0.80	25.2	9.50	3.90	0.28	0.008	0.015

Typical ferrite level: 45 FN

$PRE_N = Cr + 3.3 Mo + 16 N \geq 40$

**MINIMUM ALL-WELD METAL MECHANICAL PROPERTIES**

Rm [MPa]	Rp0.2% [MPa]	A <sub>5</sub> %	CVN [J]
760	550	20	+ 20°C: 40

**TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES**

Rm [MPa]	Rp0.2% [MPa]	A <sub>5</sub> %	CVN [J]
870	730	28	+ 20°C : 55

**SHIELDING GAS**

EN ISO 14175 :	I1	Ar
	M12	Ar + 1 - 3% CO <sub>2</sub>
		Ar + 10 - 30 % He + 0.5 - 2 % CO <sub>2</sub>

**OPERATING CONDITIONS**

Current type	Gas flow rate	Stick out	Recovery
DC (+) / pulsed	10 - 20 l/min.	12 - 25 mm	98 %

**WELDING POSITIONS**

EN ISO 6947: PA, PB.

ASME IX: 1G, 1F, 2F.

TUBE S D 750-G is primarily used in the flat and horizontal positions. However, welds in other positions are also possible using the short-circuiting or pulsed arc modes of transfer.

**PACKAGING**

Diameter	1.2 mm		1.6 mm
	EN ISO 544 – ASME IIC SFA-5.2 M		
Spool type	S200	BS300	BS300
Weight	5 kg	15 kg	15 kg

Other packaging and other diameters: please consult us

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.