

316S92

SAW

SOLID WIRE FOR SAW

PRODUCT DESCRIPTION

Solid wire for SAW

CLASSIFICATIONS

AWS A5.9M ER316L
ISO 14343-A 19 12 3 L
ISO 14343-B SS316L
Approvals TÜV, LRS

ASME IX QUALIFICATION

QW432 F-No 6
QW442 A-No 8

CHEMICAL COMPOSITION (WIRE WT %)

	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	FN
Min.	--	1.0	0.30	--	--	18.0	11.0	2.5	--	3
Max.	0.03	2.0	0.65	0.020	0.030	20.0	14.0	3.0	0.3	10
Typical	0.01	1.4	0.5	0.01	0.015	18.5	12.8	2.6	0.15	6

ALL-WELD MECHANICAL PROPERTIES

As welded	Min.	Typical SAW + P2007
Tensile strength [MPa]	510	570
0.2% proof strength [MPa]	320	450
Elongation [%] 4d	30	41
5d	30	37
Impact ISO-V(I) -130°C	--	> 45
-196°C	--	30
Hardness cap/mid [HV]	--	195/215

* See data sheet B-38 for as-welded cryogenic applications at -196°C.

TYPICAL OPERATING PARAMETERS

Flux	Current	Diameter (mm)	Parameters
P2007	DC+	2.4	350A, 28V

PACKAGING DATA

Diameter (mm)	Weight (kg)	Packaging	Item number
2.4	25	B415	SA316S92-24
3.2	25	B415	SA316S92-32
4.0	25	B415	SA316S92-40

STAINLESS STEELS