



P 45S

SMAW - (Stick) - MMA
Un-alloyed

Date: 2013-05-30
Revision: 21

Description:

P 45S is a multi-purpose rutile-cellulosic coated electrode suitable for a wide application range in mild steel. The electrode is fully positional, including vertical down and welds with a crisp, steady arc to produce a smooth bead surface with good slag detachability. It is relatively insensitive to rust, dirt and surface coatings. Together with its ability to bridge gaps, the general versatility of P 45S makes it ideal for both shop and site fabrication.

Applications:

Welding positions:



Coating type:

Rutile-cellulosic

Welding current:

DC+/-, AC OCV ≥ 50 V

For root passes: DC-

Metal recovery:

90%

Redrying temperature:

90 °C, 2h

Chemical composition, wt.%

	C	Si	Mn	P	S	Cr	Ni
Min		0,30	0,30				
Typical	0,07	0,4	0,5	0,015	0,015		
Max	0,10	0,70	0,75	0,030	0,020	0,1	0,2

	Mo	Cu	V	Nb
Min				
Typical				
Max	0,1	0,2	0,05	0,05

Mechanical properties

	<u>Specified</u>	<u>Typical</u>
Yield strength, Re:	≥ 420 MPa	470 MPa
Tensile Strength, Rm:	510-560 MPa	550 MPa
Elongation, A5	$\geq 22\%$	24%
Impact energy, CV:	0 °C • ≥ 47 J	0 °C • 50 J

Classification:

EN ISO 2560-A E 42 0 RC 11
AWS A5.1 E 6013

Approvals:

CE
BV 2Y
LR 2m, 2Ym
MRS 2
ABS 2
DNV 2
GL 2Y

Produkt data:

Diam.mm	Length mm	Product code	Current A	Voltage V	Kg weld metal/ kg electrodes	No. of electrodes/ kg weld metal	Kg weld metal/ hour arc time	Burn-off time/ electrode (sec.)
2,0	300	71452000	40-80	24	0,7	139	0,4	40
2,5	350	71452500	70-100	25	0,7	78	0,8	48
3,2	350	71453200	90-145	25	0,7	48	1,2	49
4,0	350	71454000	120-195	25	0,7	33	1,7	58
5,0	450	71455000	180-270	26	0,75	21	2,3	64