

Baso[®] 48SP

CLASSIFICATION

AWS A5.1	E 7016-H8	A-Nr	1
ISO 2560-A	E 38 3 B 12 H10	F-Nr	4
		9606 FM	1

GENERAL DESCRIPTION

Rutile basic coated electrode with excellent start- and restart properties
 Weldable on AC and DC
 Stable arc, also at low amperage
 Popular at welding schools
 Min. 60 Volt is recommended
 Good mechanical and impact properties down to -30°C (>47 J)
 Low hydrogen content (HDM < 8 ml/100g)

WELDING POSITIONS (ISO/ASME)



PA/1G



PB/2F



PC/2G



PF/3Gu



PE/4G

CURRENT TYPE

∅ 2.5 AC / DC + / -
 ∅ 3.2 AC / DC +
 ∅ 4.0 AC / DC +
 ∅ 5.0 AC / DC

APPROVALS

RMRS	LR	TÜV
3YHH	3YmH10	+

CHEMICAL COMPOSITION (W%), TYPICAL, ALL WELD METAL

C	Mn	Si	P	S
0.06	0.9	0.7	≤ 0.020	≤ 0.015

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Condition	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Impact ISO-V(J)	
					-20°C	-30°C
Required: AWS A5.1 ISO 2560-A Typical values	AW	≥ 380	530-680 470-600	25	150	60

PACKAGING AND AVAILABLE SIZES

	Diameter (mm)	Length (mm)	2.5		3.2		4.0	
			350	350	450	350	450	
CBOH	Pieces / unit		100	55	55	40	40	
	Net weight/unit (kg)		2	1.8	2.3	2	2.6	
VPMD	Pieces / unit		100	55	-	-	-	
	Net weight/unit (kg)		2	1.8	-	-	-	

Identification Imprint: 7018-1-BASO 48SP Tip Color: green

Baso[®] 48SP+ rev. C-EN25-26/07/21

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EXAMPLES OF MATERIALS TO BE WELDED

Steel grades/Code	Type
General structural steels	
EN 10025	S185, S235, S275, S355
Ship plates	
ASTM A 131	Grade A, B, D, AH32 to EH36
Cast steels	
EN 10213-2	GP240R
Pipe material	
EN 10208-1	L210, L240, L290, L360
EN 10208-2	L240, L290, L360
API 5LX	X42, X46, X52, X60
EN 10216-1	P235T1, P235T2, P275T1
EN 10217-1	P275T2, P355N
Boiler & pressure vessel steels	
EN 10028-2	P235GH, P265GH, P295GH, P355GH
Fine grained steels	
EN 10025 part 3	S275, S355
EN 10025 part 4	S275, S355

CALCULATION DATA

Diam. x length (mm)	Current range (A)	Current type	Arc time	Energy	Dep. rate	Weight/ 1000 pcs (kg)	Electrodes/ kg weldmetal B	kg electrodes/ kg weldmetal 1/N
			- per electrode at max. current - [S]*	E[kJ]	H[kg/h]			
2.5x350	50-85	AC	48	104	0.9	19.4	82	1.6
3.2x450	85-135	AC	75	273	1.1	41.0	42	1.72
4.0x450	135-190	AC	95	487	1.6	64.6	24	1.55

*Stub end 35mm

WELDING PARAMETERS, OPTIMUM FILL PASSES

Diameter (mm)	Welding positions				
	PA/1G	PB/2F	PC/2G	PF/3Gup	PE/4G
2.5	80A	85A	85A	85A	80A
3.2	120A	115A	115A	115A	110A
4.0	170A	180A	180A	180A	160A

REMARKS / APPLICATION ADVICE

Redry electrodes 2-4h 350 ±25°C after removal from cardboard boxes