040314

**SMAW** electrode

# SPEEDARC 7018-E



## **CLASSIFICATION**

AWS A5.1:	E7018-1
ISO 2560-A:	E 42 4 B 32 H5
EN499:	E 42 E B 32 H5

### **DESCRIPTION AND APPLICATIONS**

- Basic coated SMAW electrode for all position welding with high level mechanical properties
- Welding of steels subject to high static or dynamic stresses with guaranteed high toughness even at low temperatures
- Excellent usability in all positions, stable arc, soft fusion, very high quality deposit which resists cracking and aging
- Baking before use: 2 hours at 300/350° C

## **APPLICATIONS**

**Base materials** 

Unalloyed construction steel, boiler plate, pipe steels, fine-grained steels, shipbuilding steels, cast steels

#### Examples

EN 10025	S185, S235JR to S355K2G4
EN 10028-2	P235GH, P265GH, P295GH, P355GH
EN 10113	S275N to S460N, S275M to S460ML
API 5LX	X42, X46, X 52, X60, X65
EN 10208	L240NB to L415NB
ASTM SA516	Gr55 to Gr70
	A, B, D, E, and A32/36 to F40
DIN 1681	GS-38, GS-45, GS-52
ISO/TR 15608: G	6r1.1, 1.2, 1.3, 2.1 and 3.1
	EN 10025 EN 10028-2 EN 10113 API 5LX EN 10208 ASTM SA516 DIN 1681 ISO/TR 15608: G

## **TYPICAL ALL-WELD METAL ANALYSIS [%]**

С	Si	Mn	Р	S
<0.1	0.4	1.1	<0.025	<0.025

## MINIMUM ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp 0.2% [MPa]	A5 [%]	CVN [J]			
490	400	22	-45°C: 27			
TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES						
Rm [MPa]	Rp 0.2% [MPa]	A5 [%]	CVN [J]			
= 0.0	400	00	F000, F0			

## **OPERATING CONDITIONS**

•••••••					
Electro	de ØxL [mm]	2,5 x 350	3,2 x 350	3.2 x 450	4,0 x 450
Current [A]		65-110	100-145	100-145	135-200
Interpass ter	mperature: ~ 250°	C.			
= +	~ 70V				

### WELDING POSITIONS

	-	 -	-				
<b>EN ISO 694</b>	47:		PA,	PB,	PC,	PF,	ΡE
ASME IX:			1G,	2F,	2G,	3G,	4G

## PACKAGING

Electrode ØxL [mm]	2,5 x 350	3,2 x 350	3,2 x 450	4,0 x 450
Weight/box [kg]	5	5	6.5	6.5
Electrodes/box	~ 231	~ 147	~ 147	~ 91

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.