

# Innershield® NR®-208-H

## Self-shielded cored wire

### Classification

AWS A5.29/A5.29M : E91T8-G

### General description

Self shielded: easiest equipment arrangement

Semi-automatic fill and cap pass welding of X-80 pipe steel in vertical down position

Excellent low temperature toughness

Low hydrogen content ( $H_{DM} < 8$  ml/100g)

### Welding positions



ISO/ASME PG/5Gdown

### Current type

DC -

### Approvals

TÜV

+

### Chemical composition (w%), typical, all weld metal

C	Mn	Si	P	S	Al	Ni
0.05	1.65	0.25	0.007	<0.003	0.85	0.8

### Mechanical properties, typical, all weld metal

	Condition	Yield strength (N/mm <sup>2</sup> )	Tensile strength (N/mm <sup>2</sup> )	Elongation %	Impact ISO-V(J) -30°C
Required:	AWS A5.29	min. 540	620-760	17	
Typical values	AW (1G)	585	650	26	115

### Packaging and available sizes

Unit type	Diameter (mm)	
	1.7	2.0
6.35 kg coil 14C	X	X

Innershield® NR®-208-H: rev. EN 21

**Liability:** All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance **Fumes:** Consult information on Welding Safety Sheet, available upon request

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## Materials to be welded

Steel grades/Standard      Type

### Pipe material

API5LX                              X60, X70  
EN 10208-2                        L 415, L445, L480, L550

## Calculation data at normal setting

Diameter (mm)	Electrical Stick-out (mm)	Wire feed speed cm/min	Current (approx. A)	Arc Voltage (V)	Deposition Rate (kg/h)	kg Wire/ kg Weldmetal
1.7	19	150	145	15.5	1.0	-
		205	180	17.5	1.3	-
		270	215	18.5	1.8	-
		370	255	20.5	2.4	-

## Remarks/ Application advice

Preheat and interpass temperature depending on steel quality  
For root pass welding of X-60 to X-80 the Innershield NR-204-H electrode is recommended