

ASME/ASTM Wire Type Penetrameters (IQIs) to ASTM E 747-04

These IQIs comprise six parallel wires, encapsulated in thin PVC with two radio-opaque identification plaques. Each IQI is batch numbered and is supplied with a Declaration of Conformity in a storage wallet. The certificate contains a quality history and a print out of the wire diameters*. Our manufacturing and inspection procedures form part of a Quality System registered to ISO 9002.

The 2004 revision has been published. It contains a few changes from the last revision of 1997: a) there is no longer provision for the continuing use IQIs made to the old 1994 revision, b) the possible use of European EN wire IQIs is specifically permitted by contractual agreement.



ASTM Wire No	Nearest EN Wire	Nominal Ø inches	SET			
			A	B	C	D
1	W17	0,0032	X			
2	W16	0,004	X			
3	W15	0,005	X			
4	W14	0,0063	X			
5	W13	0,008	X			
6	W12	0,010	X	X		
7	W11	0,013		X		
8	W10	0,016		X		
9	W9	0,020		X		
10	W8	0,025		X		
11	W7	0,032		X	X	
12	W6	0,040			X	
13	W5	0,050			X	
14	W4	0,063			X	
15	W3	0,080			X	
16	W2	0,100			X	X
17	W1	0,126				X
18		0,160				X
19		0,20				X
20		0,25				X
21		0,32				X

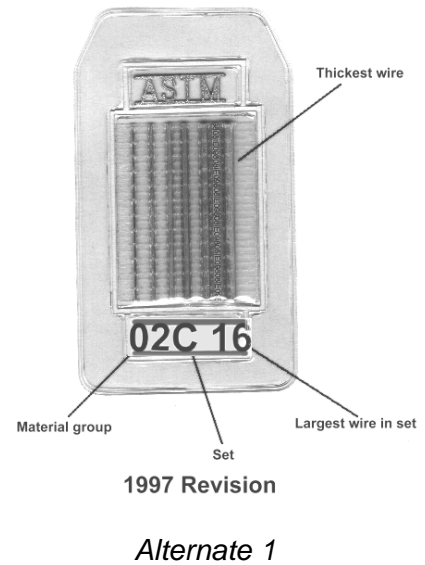


Alternate 2 design

The Standard permits the identifications to be mounted in two different ways: Alternate 1, with ASTM above the wires and the model designation below the wires; Alternate 2 with both identifications above the wires. As the majority of users prefer it, we manufacture and supply Alternate 2 as standard. If Alternate 1 is required, please state this clearly.

(Please order as "Cat. No. 10.24.20/A1 ASTM Wire Penetrator IQI Steel" for example)

Set	Materials Group	Material	Specimen Thickness Range at 2-1T Level
A	01	Titanium	0,4 – 1in (10,16 – 25,4mm)
A	02	Aluminium	
A	1	Steel	
A	3	Inconel	
A	4	Copper	
B	01	Titanium	1 – 2,5in (25,4 – 63,5mm)
B	02	Aluminium	
B	1	Steel	
B	3	Inconel	
B	4	Copper	
C	02	Aluminium	2,5 – 6in (63,5 – 152,4mm)
C	1	Steel	
C	4	Copper	
D	02	Aluminium	6 – 14in (152,4 – 355,6mm)
D	1	Steel	
D	4	Copper	



**Sets "D" and all Inconel types are of US origin; a print out of the wire diameters may not be available.*