

  
**APE**<sup>®</sup>  
raccorderie

**APE**PIPES

  
**APE**<sup>®</sup>  
raccorderie



  
Q U A L I T À P U N G E N T E I

**APE RACCORDERIE s.r.l**  
Via G. Gozzano, 8 25068 Ponte Zanano Sarezzo (BS) C.P 54 Italy  
Tel +39 030 8920912 Fax +39 030 826624  
info@ape-raccorderie.com www.ape-raccorderie.com

  
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ENCLOSE  
YOUR  
PLEASURE

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PIPES

# APE PIPES

PIPES

## SICURAMENTE APEPIPES

Ape Raccorderie azienda leader nel settore idrotermosanitario italiano ed estero produce all'interno dei suoi stabilimenti l'intero sistema di distribuzione di acqua e di gas.

Il sistema tubo APE MULTYLAYER raccordo è certificato dai maggiori enti internazionali quali KIWA, DWGV, KOMO e DIN CERTCO.

L'intera produzione è garantita dall'elevata competenza e professionalità del sistema qualità Ape Raccorderie che assicura un alto standard qualitativo di un prodotto MADE IN ITALY.

APE MULTYLAYER vanta un'ampia gamma di prodotti per soddisfare al meglio le esigenze di ogni impianto idrotermosanitario ed è idoneo al trasporto sia di acqua tecnica che di acqua per uso sanitario e potabile.

Ape Raccorderie, a leading manufacturer in the Italian and foreign plumbing and heating fittings industry, produces water and gas distribution systems inside its factory.

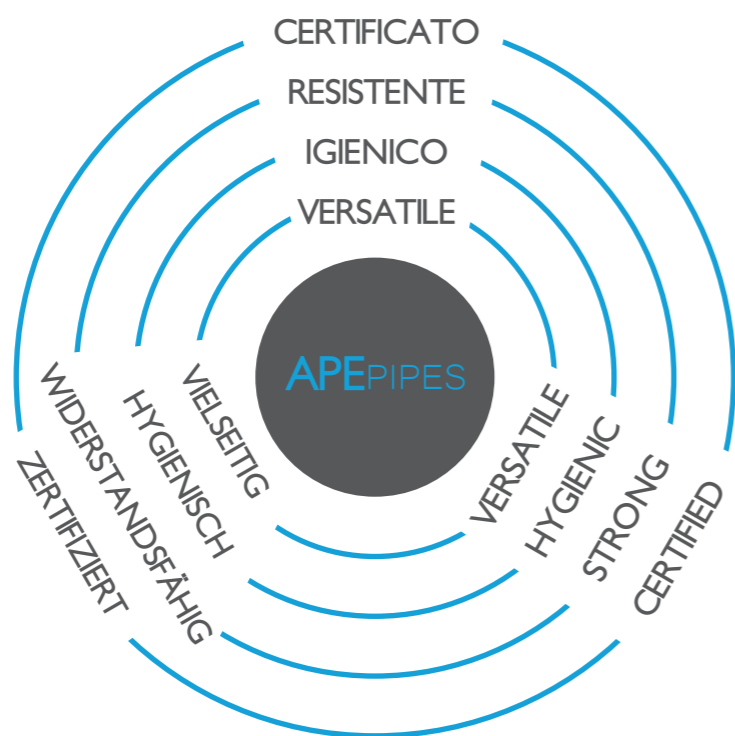
The APE MULTYLAYER pipe/fitting system is certified by major international institutes such as Kiwa, DWGV, KOMO and DIN CERTCO. All products are guaranteed by the high levels of expertise and professionalism of the Ape Raccorderie quality system which provides all the high quality standards of a MADE IN ITALY product.

APE MULTYLAYER boasts a broad range of products to best satisfy the requirements of any plumbing and heating system, suitable for both industrial and domestic hot water and drinking water systems.

Ape Raccorderie, ein führendes Unternehmen im italienischen und internationalen Sanitär- und Heizungsbaubereich, stellt in seinen Werken das gesamte Verteilersystem von Wasser und Gas her.

Das APE MULTYLAYER Rohr/Anschluss-System wird von den wichtigsten internationalen Einrichtungen wie Kiwa, DWGV, KOMO und DIN CERTCO zertifiziert. Die Garantie der gesamten Produktion wird durch die große Kompetenz und Professionalität des Qualitätssystems von Ape Raccorderie getragen, das einen hohen Qualitätsstandard eines MADE IN ITALY Produkts sicherstellt.

APE MULTYLAYER zeichnet sich durch eine breite Produktpalette aus, um die Notwendigkeiten jeder Sanitär- und Heizungsanlage bestens zu erfüllen. Außerdem eignet sich dieses Produkt sowohl für technisches Wasser als auch für Sanitär- und Trinkwasser.



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TUTTO IL NOSTRO ESSERE

# APE PIPES

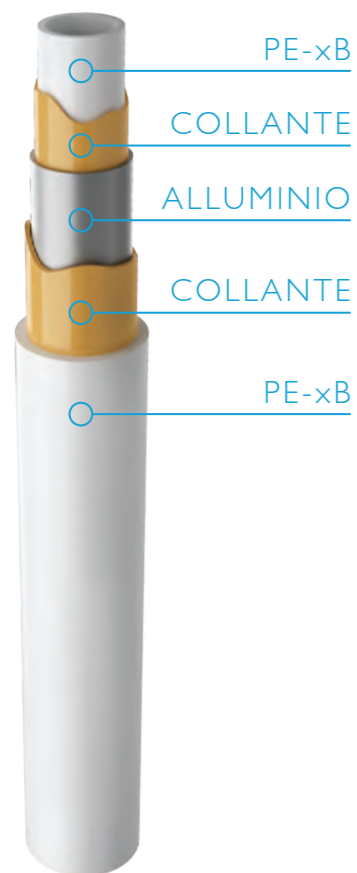
P I P E S

## APE MULTILAYER PLAIN PIPE

Il tubo APE MULTILAYER PE-Xb/Al/PE-Xb è composto da un doppio strato interno ed esterno in polietilene reticolato PE-xB (metodo B ai silani) legati tramite speciale adesivo ad uno strato intermedio in lega di alluminio saldato longitudinalmente (TIG testa a testa). Tale struttura garantisce al tubo un alto livello di modellabilità, una completa barriera all'ossigeno, igiene totale e alta resistenza alla corrosione.

APE MULTILAYER PE-Xb/Al/PE-Xb pipe is consists of a double inner and outer layer of crosslinked polyethylene PE-xB (silane method - B) bound by a special adhesive to a longitudinally welded (TIG butt welded) intermediate aluminium alloy layer. The pipe structure ensures a high level of adaptability, a perfect oxygen barrier, total hygiene and high corrosion resistance.

Mehrschicht-Verbundrohr APE MULTILAYER PE-Xb/Al/PE-Xb Besteht aus einer inneren und einer äußeren Schicht vernetzten Polyäthylens PE-xB (Silanvernetzung, Methode B), die durch einen speziellen Klebstoff mit einer Zwischenschicht aus längs geschweißter Aluminiumlegierung verbunden sind (WIG-Stoßschweißen). Diese Struktur garantiert dem Rohr ein starke Modellierbarkeit, eine vollständige Sauerstoffabgrenzung, vollständige Hygiene und Korrosionsbeständigkeit.

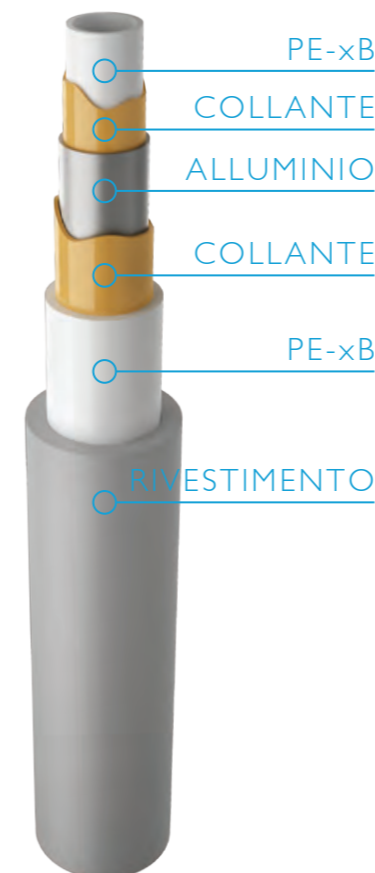


### DIMENSIONAL CHARACTERISTICS

Ø outer	mm	16	18	20	20	26	32
Ø inner	mm	12	14	16	16	20	26
weight	g/m	94	129	143	134	265	343
thickness of aluminium	mm	0,2	0,2	0,3	0,2	0,4	0,45
total thickness	mm	2	2	2	2	3	3

### TECHNICAL SPECIFICATIONS

type		PE-xB/Al/PE-xB Multilayer pipe
field of application		Plumbing in civil, industrial and commercial applications
fluid		Potable water, technical water, and water glycol (*)
continuous use temperature	°C	95
max peak temperature	°C	110
minimum operating temperature (*)	°C	0
maximum operating pressure at 95°C	bar	10
maximum operating pressure at 20°C	bar	30
duration at 95°C and 10 bar	years	50
storage		Avoid prolonged exposure to direct sunlight
minimum bend radius		5 times the diameter



## APE MULTILAYER COATED PIPE

FOR HEATING AND DOMESTIC USE / FOR AIR CONDITIONING

Il tubo è prodotto negli stessi diametri anche in versione rivestita con guaina isolante idonea sia per il riscaldamento che per il condizionamento oltre alla versione corrugata per i paesi del Nord Europa. La guaina isolante è in polietilene (PE-LD) espanso a cellule chiuse e la pellicola di finitura antigraffio è in PE-LD. Gli spessori di isolamento delle tubazioni sono conformi al D.P.R. nr. 412 del 93. Il tubo rivestito è omologato al DD.MM. del 26 giugno 1984 e 3 settembre 2001.

The pipe is also available, in the same diameters, with an insulation sheath suitable for heating and conditioning, as well as in a corrugated version for the countries of northern Europe. The insulating sheath is made of closed-cell polyethylene foam (PE-LD) while the scratchproof finishing film is in PE-LD. Pipe insulation thickness is in compliance with Italian Presidential Decree no. 412 of 1993. The covered pipe is type-approved according to the M.D. dated 26 June 1984 and M.D. dated 3 September 2001.

Das Rohr wird mit den gleichen Durchmessern auch in beschichteter Version mit einer isolierenden Hülle produziert und eignet sich sowohl für Heizung als auch Kühlung. Außerdem gibt es eine gewellte Version für die nordeuropäischer Länder. Die isolierende Hülle besteht aus geschlossenzelligem Polyethylen-Schaumstoff (PE-LD) und die kratzfeste Abschlussfolie aus PE-LD. Die Isolierungsdicken der Rohre sind mit dem DPR (Dekret des Präsidenten der Republik) Nr. 412 von 1993 konform. Das beschichtete Rohr ist nach den DM (Ministerialdekret) vom 26. Juni 1984 und den DM vom 3. September 2001 zugelassen.

### DIMENSIONAL CHARACTERISTICS

Ø outer	mm	16	18	20	20	26	32
sheath thickness for heating	mm	6	6	6	9	9	9
diameter pipe + sheath (heating)	mm	28	30	32	38	44	50
sheath thickness for cooling	mm	10	10	13	13	13	13
diameter pipe + sheath (cooling)	mm	36	38	46	46	52	58
aluminium thickness	mm	0,2	0,2	0,2	0,3	0,4	0,45

### TECHNICAL SPECIFICATIONS

pipe material	PE-xB/Al/PE-xB Multilayer pipe
sheath material	closed-cell polyethylene foam PE-LD
scratch-resistant finish layer	closed-cell polyethylene foam PE-LD
Reaction to fire (UNI 9177)	Classe 1

# APE PIPES

QUALITY

## QUALITY APE PIPES

Il processo produttivo del tubo APE MULTY-LAYER rispetta la filosofia di APE RACCORDERIE che si basa sul principio di elevata qualità ed affidabilità del prodotto. Ape raccorderie investe nella ricerca delle migliori materie prime e nelle loro più avanzate tecnologie di lavorazione.

L'azienda dispone di due linee di estrusione complete di camere di reticolazione raggiungendo una capacità produttiva annua di oltre 40.000.000 metri suddivisa nei vari diametri dal 16 al 32.

Lungo le linee di produzione sono presenti numerosi controlli sia dimensionali sia strutturali che, associati alle prove richieste dalla norma UNI-EN ISO 21003 effettuate in maniera ciclica all'interno del proprio laboratorio, garantiscono prodotti con un elevato standard qualitativo.

La qualità del tubo APE MULTY-LAYER è certificata dai maggiori enti internazionali KIWA e DWGV che assicurano alla clientela nazionale ed internazionale un prodotto sicuro e duraturo nel tempo.

The APE MULTY-LAYER pipe production process reflects the APE RACCORDERIE philosophy, based on principles of high product quality and reliability. Ape Raccorderie invests in researching the best raw materials and in cutting edge manufacturing technologies.

The company has two extrusion lines complete with cross-linking chambers and achieves a yearly production capacity of over 40,000,000 metres split into various diameters, from 16 to 32.

Many controls are made along the production lines, both dimensional and structural, which, associated with the tests required by the UNI-EN ISO 21003 standard, carried out on a cyclic basis inside the company laboratory, ensure products distinguished by top-quality standards.

The quality of the APE MULTY-LAYER pipe is certified by leading international institutes such as KIWA and DWGV which means that both Italian and international customers can be sure of receiving a safe and long-lasting product.

Der Produktionsprozess des Rohrs APE MULTY-LAYER spiegelt die Philosophie von APE RACCORDERIE wider, die auf dem Prinzip von hoher Qualität und Zuverlässigkeit des Produktes basiert. Ape Raccorderie investiert in die Forschung der besten Rohstoffe und in ihre fortschrittlichsten Bearbeitungstechnologien.

Das Unternehmen verfügt über zwei Extrusionslinien mit Vernetzungskammern und erreicht so eine jährliche Produktionskapazität von 40.000.000 Metern, die sich auf die verschiedenen Durchmesser von 16 bis 32 unterteilen.

Im Verlauf der Produktionslinien befinden sich zahlreiche Kontrollen sowohl für die Abmessungen als auch für die Struktur der Rohre, die zusammen mit den von der Norm UNI-EN ISO 21003 erforderlichen Tests, die zyklisch im eigenen Labor erfolgen, Produkte eines hohen Qualitätsstandards garantieren.

Die Qualität des Rohrs APE MULTY-LAYER wird von den wichtigsten internationalen Einrichtungen KIWA und DWGV zertifiziert, die der italienischen und internationalen Kundschaft ein sicheres und langlebiges Produkt gewährleisten.

# APE PIPES

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## FEATURES APE PIPES



HYGIENE



LONG DURATION



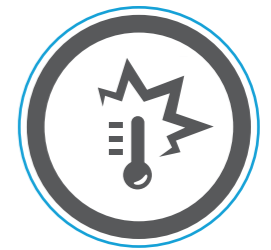
RESISTANCE TO EXTERNAL AGENTS



HIGH INNER RESISTANCE



HIGH SOUND ABSORPTION



THERMAL EXPANSION



LOW INFLAMMABILITY

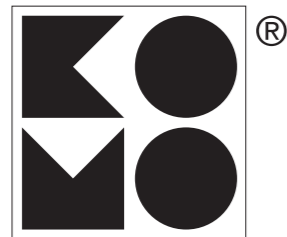


FLOW



LIGHTNESS

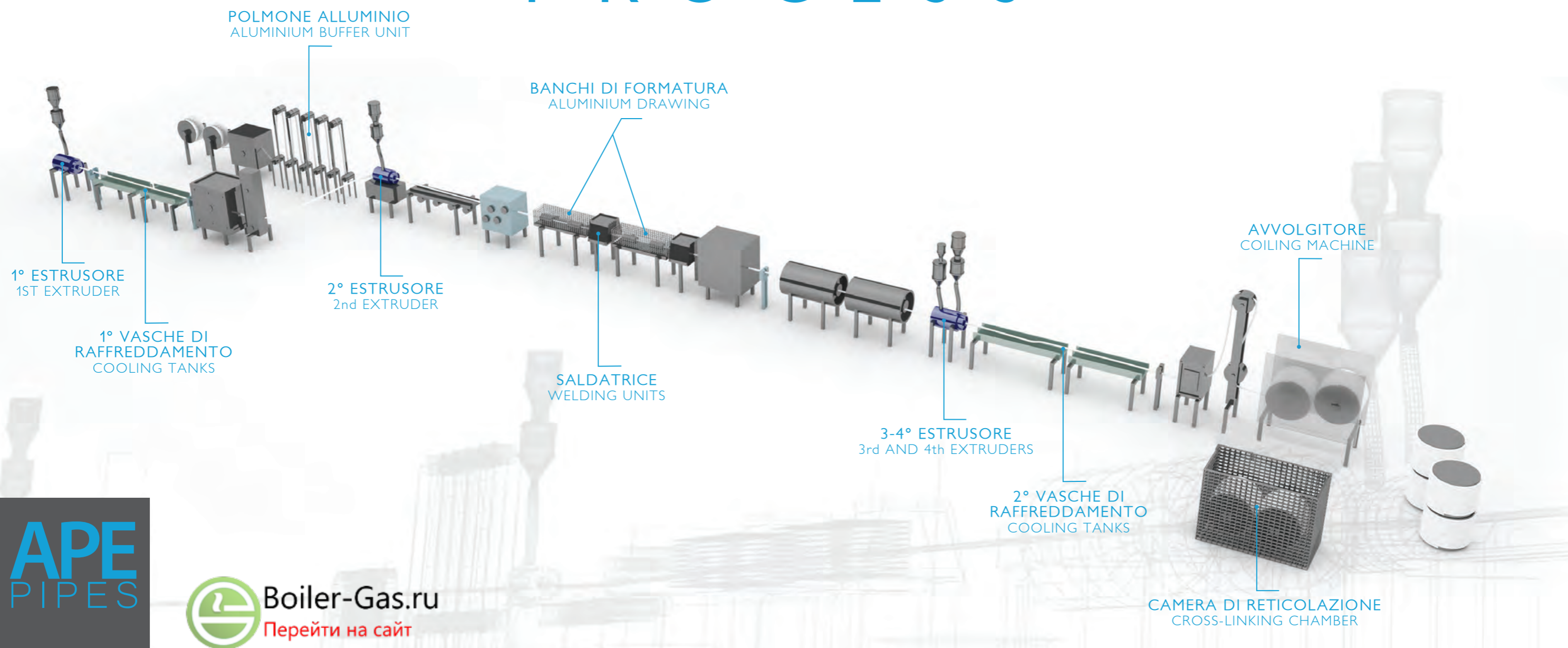
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# PRODUCTIVE PROCESS



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**APE MULTILAYER PLAIN PIPE**  
**APE MULTILAYER UNBESCHICHTET**

**COIL STRETCH FIL PACKAGED**  
**VERPACKUNG IN FOLIENROLLEN**



code	size	coil length -M-	qty. for pallet -M-	pallet dimensions -CM-
9MN021620100F	16 x 2.0	100	2200	80x80h.220
9MN021620200F	16 x 2.0	200	2600	80x80h.220
9MN031820100F	18 x 2.0	100	1500	80x80h.220
9MN031820200F	18 x 2.0	200	2000	80x80h.220
9MN032020100F	20 x 2.0	100	1400	80x80h.220
9MN022020100F	20 x 2.0*	100	1400	80x80h.220
9MN04263050F	26 x 3.0	50	500	80x80h.220
9MN45323050F	32 x 3.0	50	600	100x100h.220

\* ALUMINIUM 0,2 MM

**STRAPPED COIL**  
**ROLLE MIT VERZURRSYSTEM**



code	size	coil length -M-	qty. for pallet -M-	pallet dimensions -CM-
9MN021620500R	16 x 2.0	500	2500	80x80h.210
9MN032020300R	20 x 2.0	300	2400	90x90h.210

**STRAIGHT LENGTH**  
**STANGEN**



code	size	length of straight length pipe	amount for box		box dimensions -CM-
		-M-	-M-	-NR-	
9MN021620BR	16 x 2.0	4	80	20	400 x Ø 12,6
9MN031820BR	18 x 2.0	4	80	20	400 x Ø 12,6
9MN032020BR	20 x 2.0	4	40	10	400 x Ø 12,6
9MN042630BR	26 x 3.0	4	40	10	400 x Ø 12,6
9MN453230BR	32 x 3.0	4	32	8	400 x Ø 12,6

**STRAIGHT LENGTH**  
**STANGEN**



code	size	length of straight length pipe	amount for box		box dimensions -CM-
		-M-	-M-	-NR-	
9MN454040BR	40 x 4.0	4	36	9	400 x Ø 16
9MN455045BR	50 x 4.5	4	28	7	400 x Ø 16
9MN456345BR	63 x 4.5	4	16	4	400 x Ø 16

**CARDBOARD PACKAGING**  
**VERPACKUNG IN KARTONS**



code	size	coil length -M-	qty. for pallet -M-	pallet dimensions -CM-
9MN021620100C	16 x 2.0	100	1800	80x80h.220
9MN032020100C	20 x 2.0	100	1300	80x80h.220

MULTYLAYER COATED PIPE  
APE MULTYLAYER BESCHICHTET

MULTYLAYER COATED PIPE  
APE MULTYLAYER BESCHICHTET

FOR HEATING AND DOMESTIC USE  
FÜR SANITÄR UND HEIZUNG

FOR HEATING AND DOMESTIC USE  
FÜR SANITÄR UND HEIZUNG

FOR HEATING AND DOMESTIC USE  
FÜR SANITÄR UND HEIZUNG

FOR AIR CONDITIONING  
FÜR KLIMATISIERUNG



code	size	sheath thickness ---	coil length ---	qty. for pallet ---	pallet dimensions ---
9MR02162050F	16 x 2.0	6	50	700	75x75h.230
9MR021620100F	16 x 2.0	6	100	1200	100x100h.230
9MR03182050F	18 x 2.0	6	50	650	80x80h.230
9MR03202050F	20 x 2.0	9	50	500	90x90h.230
9MR02202050SF	20 x 2.0*	6	50	600	80x80h.230
9MR04263050F	26 x 3.0	9	50	500	100x100h.230
9MR45323025F	32 x 3.0	9	25	300	100x100h.230

\* ALUMINIUM 0,2 MM

code	size	sheath thickness ---	coil length ---	qty. for pallet ---	pallet dimensions ---
9MR02162050FR	16 x 2.0	6	50	700	75x75h.230
9MR021620100FR	16 x 2.0	6	100	1200	100x100h.230
9MR03202050FR	20 x 2.0	9	50	500	90x90h.230
9MR02202050SFR	20 x 2.0*	6	50	600	80x80h.230
9MR04263050FR	26 x 3.0	9	50	500	100x100h.230
9MR45323025FR	32 x 3.0	9	25	300	100x100h.230

\* ALUMINIUM 0,2 MM

code	size	sheath thickness ---	coil length ---	qty. for pallet ---	pallet dimensions ---
9MR02162050FB	16 x 2.0	6	50	700	75x75h.230
9MR021620100FB	16 x 2.0	6	100	1200	100x100h.230
9MR03202050FB	20 x 2.0	9	50	500	90x90h.230
9MR02202050SFB	20 x 2.0*	6	50	600	80x80h.230
9MR04263050FB	26 x 3.0	9	50	500	100x100h.230
9MR45323025FB	32 x 3.0	9	25	300	100x100h.230

\* ALUMINIUM 0,2 MM

code	size	sheath thickness ---	coil length ---	qty. for pallet ---	pallet dimensions ---
9MRC02162050F	16 x 2.0	10	50	500	80x80h.230
9MRC03202050F	20 x 2.0	13	50	400	90x90h.230
9MRC04263050F	26 x 3.0	13	50	350	100x100h.230
9MRC45323025F	32 x 3.0	13	25	200	100x100h.230



APE MULTILAYER SHEATED PIPE  
APE MULTILAYER UMMANTELTES ROHR

RED SHEATHED  
UMMANTELT ROT



code	size	coil length --	qty. for pallet --	pallet dimensions -Q-
9CR02162050FR	16 x 2.0	50	750	75x75h.230
9CR02202050FR	20 x 2.0*	50	700	75x75h.210

\* ALUMINIUM 0,2 MM

BLUE SHEATHED  
UMMANTELT BLAU




code	size	coil length --	qty. for pallet --	pallet dimensions -Q-
9CR02162050FB	16 x 2.0	50	750	75x75h.230
9CR02202050FB	20 x 2.0*	50	700	75x75h.210

\* ALUMINIUM 0,2 MM



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