

End Cap

ATEC™

PRODUCT DESCRIPTION

The ATEC end cap is a high-performance heat-shrinkable product designed to seal and protect the foam at the ends of pre-insulated pipes. The pre-formed end cap is designed to conform to the step-down from the casing pipe to the carrier pipe, providing an effective seal against moisture ingress into the foam. The ATEC end cap is made from a stable crosslinked polyethylene backing, lined with a high-temperature mastic adhesive for fast and reliable field installation.

PRODUCT FEATURES

Sealant Design

- Pre-lined with special butyl-based sealant at each end.
- ATEC-20 sealant strips activate during heat shrinking.
- Excellent bond to both the steel pipe and casing pipe.

Ease of Installation

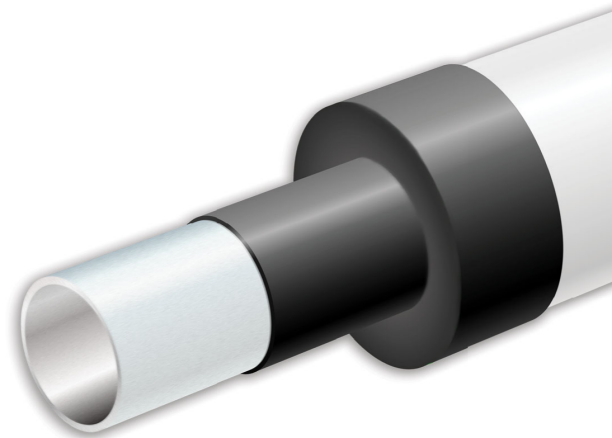
- Pre-molded shape fits the cut-back step-down.
- Crosslinked backing shrinks quickly and maintains hoop stress.
- Conforms closely to the casing and carrier pipe.

Service Durability

- Stable at elevated service temperatures.
- Remains flexible during service.
- Provides sustained protection against water ingress.



Heat-Shrinkable End Cap for Sealing and Protection of Pre-Insulated Pipe Ends



STANDARD COMPLIANCE

STANDARD	COMPLIANCE
STANDARD NAME	
EN 489	Compliant*
Pre-insulated bonded pipe systems - joint assembly performance requirements	

* Compliance is subject to the approved AT product configuration, applicable qualification testing and project-specific requirements.

End Cap

ATEC™

Heat-Shrinkable End Cap for Protection of
Pre-Insulated Pipe Ends

Adhesive Properties

	Standard	Typical Values
Chemical Class		Butyl based
Total Solids		100%
Low-Temperature Flexibility	ASTM 765	< -70 °C
Water Absorption	ASTM D570	< 0.1%
Lap Shear @ 23 °C	ISO 21809	6 N/cm²

Backing Properties

	Standard	Typical Values
Tensile Strength	ISO 21809	22 MPa
Elongation	ISO 21809	455%
Thermal Aging @ 150 °C for 7 Days	ISO 21809	375%

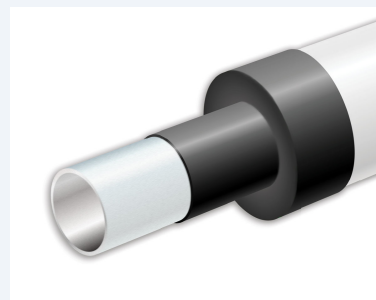
Sleeve Properties

	Standard	Typical Values
Peel Strength @ 23 °C*	ISO 21809	13 N/cm
Thermal Aging @ 150 °C for 14 Days	ISO 21809	No cracking - sealant remains flexible
Thermal Aging @ 120 °C for 100 Days	ISO 21809	No cracking - sealant remains flexible

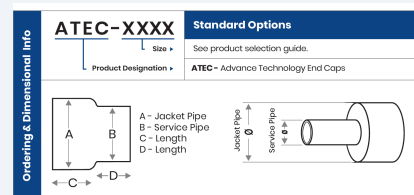
* 10 cm/min

PRODUCT SELECTION GUIDE

ATEC Sizes (mm)	Large Diameter A		Small Diameter B		Thickness Recovered (mm)	Length (Recovered)		Adhesive Width (mm)
	Supplied (mm)	Recovered (mm)	Supplied (mm)	Recovered (mm)		C (mm)	D (mm)	
ATEC-100	105	47	30	10	2.2	75	40	30
ATEC-200	140	75	30	15	2.2	75	40	30
ATEC-300	105	75	40	24	2.2	75	40	30
ATEC-400	135	75	55	24	2.2	75	40	30
ATEC-500	148	75	60	24	2.2	75	40	30
ATEC-600	175	135	60	30	2.2	80	45	30
ATEC-700	150	90	90	40	2.2	80	45	30
ATEC-800	195	130	95	50	2.2	80	45	30
ATEC-900	240	145	145	68	2.2	80	45	30
ATEC-1000	270	145	150	68	2.2	80	45	30
ATEC-1100	295	220	180	120	2.2	100	50	30
ATEC-1200	360	220	255	120	2.2	100	50	30
ATEC-1300	420	340	280	200	2.2	100	50	30
ATEC-1400	540	340	415	200	2.2	100	50	30
ATEC-1500	680	480	570	360	2.7	115	70	30
ATEC-1600	750	480	640	360	2.7	115	70	30



ATEC™



Ordering & Dimensional Info

290 North Queen St.
Suite 208
Etobicoke, ON M9C 5L2
Canada

Phone: +1 416 433 3186

advance-technology.com

consult@advance-tech.ca

Please contact Advance Technology for
further details.

