

# Excelon® AK Laboratory & BK Laboratory Tubing



**APPLICATIONS:**  
LABORATORY TEST TUBING  
GAS TESTING  
VAPOR TESTING  
VENT TUBING  
DRAIN LINE  
PERISTALTIC PUMP TUBING  
MEDICAL DEVICE TUBING  
INCUBATOR TUBING  
BUNSEN BURNER TUBING

Samples available upon request.

Custom sizes and lengths available upon request.

**REGULATORY COMPLIANCE:** REACH, RoHS, and Prop 65 compliant

# AK Laboratory & BK Laboratory Tubing

- AK Lab: Alternative to Tygon® R-3603
- BK Lab: Alternative to Tygon® E-3603
- Well suited for use in paint, pigment, and soap dispensing applications
- Meets FDA CFR 21, Part 175.300 criteria
- Withstands autoclaving
- Batch consistency

Excelon® Laboratory and Vacuum tubing offers superior strength and versatility at a lower cost than alternative products. This crystal clear, highly flexible tubing is a reliable choice for the transfer of liquids and gases in most of today's laboratory applications.

Ideal for use in peristaltic pumps and medical devices, Excelon® Laboratory and Vacuum tubing is an excellent alternative to latex and silicone tubing. The inner bore is as smooth as glass and prevents build-up, making clean-up and changeovers simple and problem-free. Offered in two different formulas, one alternative to the Tygon® R-3603 and additionally an alternative to the Tygon® E-3603.

## PHYSICAL PROPERTIES

PROPERTIES	AK LAB	BK LAB
Hardness, Shore A	62	57
Specific Gravity	1.18	1.18
Tensile Strength	1832 psi	1600 psi
Elongation at Break	456%	450%
Max. Operating Temperature	165°F	148°F
Brittle Temperature	-50°F	-48°F
Tint Package	Blue	Copper

Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

## LABORATORY VACUUM TUBING SIZING CHART

AK ITEM NO.	BK ITEM NO.	ID	OD	WALL	LENGTH	MAX. WKG PSI @ 73°F
436188VAC	437188VAC	.187	.562	.187	50'	70
436250VAC	437250VAC	.250	.625	.187	50'	59
436375VAC	437375VAC	.375	.875	.250	50'	49
436500VAC	437500VAC	.500	1.125	.312	50'	49
436625VAC	437625VAC	.625	1.375	.375	50'	45
436750VAC	437750VAC	.750	1.500	.375	50'	38
4361000VAC	4371000VAC	1	2	.500	50'	42

Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

## LABORATORY METRIC TUBING SIZING CHART (DIAMETER SHOWN IN MM)

AK ITEM NO.	BK ITEM NO.	ID (MM)	OD (MM)	WALL (MM)	LENGTH (M)	MAX. WKG PSI @ 73°F
43600215	43700215	2	4	1	15 M	40
43600315	43700315	3	5	1	15 M	30
43600415	43700415	4	6	1	15 M	25
43600515	43700515	5	8	1.500	15 M	30
43600615	43700615	6	9	1.500	15 M	25
43600815	43700815	8	12	2	15 M	25

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## LABORATORY TUBING SIZING CHART

AK ITEM NO.	BK ITEM NO.	ID	OD	WALL	LENGTH	MAX. WKG PSI @ 73°F
436901705	437901705	.062	.125	.031	50'	49
436901805	437901805	.093	.156	.031	50'	32
43690205	43790205	.125	.187	.031	50'	31
4360205	4370205	.125	.250	.062	50'	43
4360305	4370305	.187	.312	.062	50'	31
43690405	43790405	.187	.250	.031	50'	23
4360505	4370505	.187	.437	.125	50'	54
4360605	4370605	.250	.375	.062	50'	25
4360705	4370705	.250	.437	.093	50'	34
4360805	4370805	.250	.500	.125	50'	43
4360905	4370905	.312	.437	.062	50'	21
4361005	4371005	.312	.500	.093	50'	28
4361105	4371105	.312	.562	.125	50'	36
4361205	4371205	.375	.500	.062	50'	18
4361305	4371305	.375	.562	.093	50'	25
4361405	4371405	.375	.625	.125	50'	31
4361505	4371505	.437	.562	.062	50'	16
4361805	4371805	.500	.625	.062	50'	14
4361905	4371905	.500	.687	.093	50'	19
4362005	4372005	.500	.750	.125	50'	25
4362505	4372505	.625	.812	.093	50'	16
4362605	4372605	.625	.875	.125	50'	21
4362705	4372705	.625	.937	.156	50'	25
4363105	4373105	.750	1	.125	50'	18
436931805	437931805	.750	1.250	.250	50'	31
436931905	437931905	.750	1.125	.187	50'	25
4363305	4373305	.875	1.125	.125	50'	16
4363505	4373505	1	1.250	.125	50'	14
4363705	4373705	1	1.375	.187	50'	19
4363805	4373805	1	1.500	.250	50'	25
43693905	43793905	1.250	1.500	.125	50'	11
4364105	4374105	1.500	2	.250	50'	18
436941705	437941705	1.750	2.250	.250	50'	16
4364205	4374205	2	2.500	.250	50'	14

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