
ROYAL



FILTER MANUFACTURING COMPANY

4327 South 4th Street • Chickasha, OK 73018 • (405) 224-0229



**High Efficiency Cartridges
RL-AB Series**

www.royalfilter.com

Features:

- * Specially formulated combination blend of micro-glass fibers laminated to quality solvent-based cellulose media
- * 75 psid pressure differential rating
- * 250 F maximum operating temperature
- * Tin plated steel spiral formed center tubes
- * Initial pressure drop - 4 PSI or less
- * Buna N gaskets are standard
- * Special "Z" locked seam on perforated outer body
- * Wide selection with interchanges for many other manufacturers' cartridges

Royal Filter high efficiency cartridges are offered in a variety of configurations and sizes to replace current industry cartridges. These cartridges are used for the removal of fine particulates and/or contaminants from a wide range of products where high efficiency filtration is desired. These cartridges are constructed using a special media that is a combination of phenolic resin impregnated cellulose and micro glass fibers. The high micro glass content of this media allows these cartridges to ensure high flow rates and efficient filtration in water based fluids, chemicals, and petroleum based fluids. The glass content of this media also offers superior resistance to swelling or deterioration in the presence of water that is common with some cellulose media. RL-AB series elements are ideal for product cleanup when extremely fine particles are present and nominal filtration will not do the job. These "Beta Rated" cartridges are an excellent replacement for costly micro glass elements that cost two to three times more than the RL-AB series filters.

RL-1AB Series

Royal RL-1AB series cartridges are excellent 1 micron nominal filter with an efficiency of 96.67% (Beta 1= 30) and are "absolute" at 3 micron with an efficiency of 98.67% (Beta 3 = 75). This series is utilized in lube oil systems, hydraulic systems, amine and glycol systems, and many other applications where this level of filtration is required.

RL-05AB Series

Royal RL-05AB Series cartridges are 1/2 micron "absolute" rated cartridges (Beta 1/2 = 75). These cartridges are often used for filtration and cleanup



of fuels, such as jet fuel, av gas, gasoline, or diesel fuel where extremely fine contaminants are present. These cartridges are also used for the removal of carbon fines from transformer oils, or for filtration in critical hydraulic systems and turbine oil systems.

Replacements are available for various manufacturers' and OEM cartridges. Please consult our cross reference for interchange information. If you do not find the cartridge you require in our cross reference information, or if you have a special application, please contact us for more assistance.

Performance and Efficiencies:

Filtration efficiencies for Royal RL-AB series cartridges are determined in accordance with ISO-4572 multipass test procedures. Please refer to the charts in the element specification section of this brochure for ratings.

Applications

- | | |
|-------------------|--------------------|
| * Amines | * Lube & seal oils |
| * Chemicals | * Quench oils |
| * Gasoline | * Solvents |
| * Glycols | * Synthetic oils |
| * Fuel oils | * Transformer oils |
| * Hydraulic oils | * Turbine oils |
| * Insulating oils | * Other products |

Replacements for:

- | | |
|--------------|--------------|
| * Facet | * Racor |
| * Hilco | * Refilco |
| * Kaydon | * Velcon |
| * Filterdyne | * And others |



**ROYAL FILTER ELEMENT SPECIFICATIONS
1AB SERIES HIGH EFFICIENCY CARTRIDGES**

PART NUMBER	OD	LG	ID	COMMENTS
RL-310-1AB	2-1/2	9-7/8	1-1/16	
RL-310-1AB-3	2-1/2	9-3/4	1-1/32	3/8" Thick Buna, Hilco replacement
RL-329-1AB	2-1/2	29-1/4	1-1/32	Cuno replacement
RL-330-1AB	2-1/2	29-5/8	1-1/32	
RL-336-1AB-S	3	35-3/4	1-1/2	Open 1 end, spring on top
RL-518-1AB	4-1/2	18	1-3/4	
RL-518-1AB-3	4-1/2	18	2-5/8	Hilco replacement
RL-614-1AB	6	14-1/2	3-1/2	
RL-614-1AB-A	6	14-1/2	3-1/2	No body
RL-618-1AB-3A	6	18	3-3/16	Hilco upgrade, core, no body
RL-618-1AB-3	6	18	3-3/16	Hilco upgrade, core and body
RL-629-1AB	6	29	3-1/2	
RL-629-1AB-A	6	29	3-1/2	No body
RL-644-1AB	6	44	3-1/2	
RL-644-1AB-A	6	44	3-1/2	No body
RL-644-1ABTB	6	45	4-1/2	Standard Thread Base
RL-656-1AB	6	56	3-1/2	
RL-718-1AB	6	18	2-5/8	
RL-718-1AB-1	6	18	2-1/8	Small ID 718
RL-718-1AB-1A	6	18	2-1/8	Small ID 718, no body
RL-718-1AB-1C	6	18	2-1/8	Small ID 718, cork gaskets
RL-718-1AB-A	6	18	2-5/8	No body
RL-718-1AB-C	6	18	2-5/8	Cork Gaskets
RL-718-1AB-H	6	18	2-5/8	Cork Gaskets, Handle
RL-718-1ABT	6	18-1/2	2-5/16	3" Thread Base, Filterdyne Replacement
RL-736-1AB	6	36	2-5/8	
RL-736-1AB-1	6	36	2-1/8	
RL-736-1ABT	6	36-1/2	2-5/16	3" Thread Base, Filterdyne Replacement
RL-736-1BAB-H	6	36	2-5/8	Buna gaskets, handle
RL-754-1AB	6	54	2-5/8	

Micron	Efficiency	Beta
1	96.67%	30
3	98.67%	75
5	99.26%	133
10	99.75%	400
15	99.98%	5000

Note: Performance efficiencies determined per ISO-4572 multipass test



**ROYAL FILTER ELEMENT SPECIFICATIONS
05AB SERIES HIGH EFFICIENCY CARTRIDGES**

PART NUMBER	OD	LG	ID	COMMENTS
RL-310-05AB	2-1/2	9-7/8	1-1/32	
RL-310-05AB-3	2-1/2	9-3/4	1-1/32	Hilco replacement
RL-320-05AB	2-1/2	19-3/4	1-1/32	
RL-329-05AB	2-1/2	29-1/4	1-1/32	Cuno replacement
RL-330-05AB	2-1/2	29-5/8	1-1/32	
RL-336-05AB-S	3	35-3/4	1-1/2	Open 1 end, spring on top
RL-436-05AB-N	4-1/2	36	3-1/8	Neoprene Gasket
RL-511-05AB	4-1/2	11	1-5/8	
RL-518-05AB	4-1/2	18	1-3/4	
RL-518-05AB-3	4-1/2	18	2-5/8	Hilco replacement
RL-614-05AB	6	14-1/2	3-1/2	
RL-614-05AB-A	6	14-1/2	3-1/2	No body
RL-629-05AB	6	29	3-1/2	
RL-629-05AB-A	6	29	3-1/2	No body
RL-718-05AB	6	18	2-5/8	
RL-718-05AB-1	6	18	2-1/8	Small ID 718
RL-718-05AB-1A	6	18	2-1/8	Small ID 718, no body
RL-718-05AB-1C	6	18	2-1/8	Small ID 718, cork gaskets
RL-718-05AB-1H	6	18	2-1/8	Small ID 718, handle
RL-718-05AB-A	6	18	2-5/8	No body
RL-718-05AB-C	6	18	2-5/8	Cork Gaskets
RL-718-05AB-H	6	18	2-5/8	With handle
RL-736-05AB	6	36	2-5/8	
RL-736-05AB-1	6	36	2-1/8	
RL-736-05AB-1H	6	36	2-1/8	Cork gaskets, small ID, handle
RL-736-05AB-H	6	36	2-5/8	Cork gaskets, handle
RL-736-05BAB-H	6	36	2-5/8	Buna gaskets, handle

Micron	Efficiency	Beta
1/2	98.67%	75
1	99.06%	106
3	99.87%	763
5	99.97%	3105
7	99.98%	5000

Note: Performance efficiencies determined per ISO-4572 multipass test

How to use this cross reference: This cross reference is in alphanumeric order. Find the part number of competitor element in cross reference. The Royal part number is in the adjacent column. The corresponding letter under Co. column indicates competitor manufacturer according to legend below.

AFT	= American Filter Tech	H	= Hilco
CM	= C & M Filtration	J	= Jonell
CP	= Commercial/Parker	K	= Kaydon
F	= Facet	M	= Murphy
FIL	= Filterdyne	R	= Refilco
FSN	= U.S. Government	RH	= Racor Hydrocarbon (formerly Banner)
FT	= Fluitek	V	= Velcon
GE	= General Electric		

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
GE	114A3786P009	RL-511-1AB	K	A910128	RL-736-1BAB-H
GE	114A3786P017	RL-718-1AB-1A	K	A910129	RL-736-05BAB-H
GE	182A9904-3	RL-310-1AB-3	K	A910207	RL-509-1AB
GE	185A1520-1	RL-511-1AB	K	A910216	RL-518-1AB
GE	235A5590-1	RL-511-1AB	K	A910231	RL-310-1AB
AFT	310-1/2-54	RL-310-1AB-AEX	K	BP-518-3	RL-518-1AB
FSN	4330-01-099-2648	RL-718-1AB-1A	K	BP-523-3	RL-523-1AB
AFT	608-1	RL-608-1AB	K	BP-614-3	RL-614-1AB
AFT	608-1-6	RL-608-1AB-EX	K	BP-718-3	RL-718-1AB
AFT	614-1-1	RL-614-1AB-1	F	C-701-1	RL-614-1AB
AFT	614-1-2	RL-614-1AB-2	F	CF-614-0.5PL	RL-614-1AB-A
AFT	614-1-23	RL-614-1AB-EX	F	CF-629-0.5PLO	RL-629-1AB
AFT	614-1-2A	RL-614-1AB-2A	F	CF-629-AGPL	RL-629-1ABEXV
AFT	614-1-5	RL-614-1AB-A	F	CF-644-0.5PLO	RL-644-1AB
AFT	614-1-6	RL-614-1AB-A	F	CF-644-AGPL	RL-644-1ABEXV
AFT	718-1EA	RL-618-1AB-3	F	CIF0.5LX2	RL-629-1AB-4P
AFT	718-1/2-20A	RL-718-1AB-EXVF	F	CIF0.5LX3	RL-644-1AB-4P
AFT	718-1/2-33	RL-718-1AB-1A	CM	CM-618-303	RL-718-1AB
AFT	718-1/2-33A	RL-718-1AB-A	CM	CM-618-566	RL-718-1ABT
AFT	718-1/2-33AC	RL-718-1AB-AC	CM	CM-618-566V	RL-718-1ABTV
AFT	718-1/2-33AN	RL-718-1AB-AEX	CM	CM-636-631	RL-736-1ABT
AFT	718-1/2-33B	RL-718-1AB-1A	CM	CM-636-631V	RL-736-1ABTV
AFT	718-1/2-33C	RL-718-1AB-1AEX	FIL	FE-310-402	RL-310-1AB-3
AFT	718-1/2-34	RL-718-1AB-1	FIL	FE-511-384	RL-511-1AB
AFT	718-1/2-34A	RL-718-1AB	FIL	FE-618-303	RL-718-1AB
AFT	718-1/2-34AC	RL-718-1AB-C	FIL	FE-618-303V	RL-718-1AB-V
AFT	718-1/2-34B	RL-718-1AB	FIL	FE-618-566	RL-718-1ABT
AFT	718-1/2-34C	RL-718-1AB-A	FIL	FE-618-566V	RL-718-1ABTV
AFT	718-1/2EC	RL-618-1AB-3A	FIL	FE-636-631	RL-736-1ABT
AFT	718-1/2FPB	RL-718-1AB	FIL	FE-636-631V	RL-736-1ABTV
AFT	736-1/2-34A	RL-736-1AB-AC	FIL	FE-636-665	RL-736-1AB
AFT	736-1/2-34B	RL-736-1AB	V	FO-614A3	RL-614-1AB
K	A910110	RL-718-05AB	V	FO-614PLF1/2	RL-614-1AB-A
K	A910127	RL-736-1BAB-H	V	FO-629A3	RL-629-1AB

See our complete Alphanumeric Cross Referencing Guide (Section 1). In the event you are unable to locate cross (s) in this catalog section.

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
V	FO-629PLF1/2	RL-629-1AB-A	FT	P 2610-05E	RL-310-1AB-3EX
V	FO-644A3	RL-644-1AB	FT	P 2810-05S	RL-310-1AB-3
V	FO-644PLF1/2	RL-644-1AB-A	FT	P 4611-05A	RL-511-1AB-VF
V	FO-644PLF1/2M	RL-644-1AB	FT	P 4618-1W	RL-518-1AB
V	FO-644PLF1/2TB	RL-644-1ABTB	FT	P 6008-05AX	RL-608-1AB
V	FO-718PL01	RL-718-1AB	FT	P 6015-05S	RL-614-1AB-A
V	FO-718PL1/2	RL-718-1AB-A	FT	P 6018-02B	RL-718-05AB
V	FO-718PLP3	RL-718-0.3AB-A	FT	P 6018-02S2	RL-718-05AB-AC
V	FO-736PL1/2	RL-736-1AB-A	FT	P 6018-05A	RL-718-1AB-1
RH	FP-14601	RL-614-1AB	FT	P 6018-05A2	RL-718-1AB-C
RH	FP-18601	RL-718-1AB	FT	P 6018-05B	RL-718-1AB-1
RH	FP-44601	RL-644-1AB	FT	P 6018-05B11GE	RL-618-1AB-3
RH	FP-44601-1/2	RL-644-1AB	FT	P 6018-05B2	RL-718-1AB
CP	FP329-0.5	RL-329-1AB	FT	P 6018-05E2	RL-718-1AB-EXV
CP	FP330-0.5	RL-330-1AB	FT	P 6018-05S	RL-718-1AB-1A
CP	FP614-0.5	RL-614-1AB	FT	P 6018-05S2	RL-718-1AB-AC
CP	FP614-0.5-N	RL-614-1AB-A	FT	P 6018-05SB	RL-718-1AB-1A
CP	FP718-0.5	RL-718-1AB-H	FT	P 6018-1B2X	RL-718-1AB
CP	FP718-0.5-8	RL-718-1AB-1	FT	P 6036-05A2	RL-736-1AB-VF
CP	FP718-0.5-N	RL-718-1AB-A	FT	P 6036-05B11	RL-636-1AB
J	FSPMK 4536-1A-R	RL-436-1AB-R	FT	P 6218-05S4	RL-618-1AB-3A
J	JPM 4536-0.5W	RL-436-1AB-3	R	PL 310-1/2-54	RL-310-1AB-AEX
J	JPM 4536-1A-R	RL-436-05AB-N	R	PL 511-1/2-151	RL-511-1AB
J	JPM 736-1A-W	RL-736-1AB	R	PL 511-1/2-151N	RL-511-1AB
J	JPME 336-40AB-S1-M	RL-336-40AB-S	R	PL 518-1/2	RL-518-1AB
J	JPMK 336-05BB-S1-M	RL-336-1AB-S	R	PL 518-1/2-358	RL-518-1AB-3
J	JPMK 336-1A-WS	RL-336-1ABN-S	R	PL 518-1/2-358N	RL-518-1AB-3
J	JPMK 336-1BB-S1-M	RL-336-1AB-S	R	PL 614-1/2	RL-614-1AB
J	JPMK 336-20A-WS	RL-336-20ABN-S	R	PL 614-1/2-22A	RL-614-1AB-AEX
J	JPMK 336-5A-WS	RL-336-1ABN-S	R	PL 614-1/2-22B	RL-614-1AB
J	JPMK 4536-2-A-W	RL-436-1AB-4	R	PL 718-1/2-33	RL-718-1AB-1A
K	KF 3010-05	RL-310-1AB	R	PL 718-1/2-33A	RL-718-1AB-AC
K	KF 4509-05	RL-509-1AB	R	PL 718-1/2-33AN	RL-718-1AB-AC
K	KF 4518-05	RL-518-1AB	R	PL 718-1/2-33B	RL-718-1AB-1A
K	KF 6018-05	RL-718-1AB	R	PL 718-1/2-33C	RL-718-1AB-AEXC
K	KF 6036-05	RL-736-1BAB-H	R	PL 718-1/2-33N	RL-718-1AB-A
M	MP-509555	RL-509-1AB	R	PL 718-1/2-33VA	RL-718-1AB-AEXV
M	MP-511555	RL-511-1AB	R	PL 718-1/2-34	RL-718-1AB-1C
M	MP-518555	RL-518-1AB	R	PL 718-1/2-34A	RL-718-1AB-C
M	MP-523555	RL-523-1AB	R	PL 718-1/2-34B	RL-718-1AB
M	MP-618555	RL-718-1AB	R	PL 718-1/2-34C	RL-718-1AB-A
M	MP-636555	RL-736-1BAB-H	R	PL 718-1/2-EA	RL-618-1AB-3C
F	MP0.5	RL-614-1AB-A	R	PL 718-1/2-EC	RL-618-1AB-3A
F	MP0.5L	RL-614-1AB	R	PL 736-1/2-33B	RL-736-1AB-1
F	MP0.5LX2	RL-629-1AB	R	PL 736-1/2-34A	RL-736-1AB-C
F	MP0.5LX3	RL-644-1AB	R	PL 736-1/2-34B	RL-736-1AB
F	MP0.5LX3SB	RL-644-1ABTB	H	PL310-12-01TBOO	RL-310-1AB-3
F	MP0.5X2	RL-629-1AB-A	H	PL310-12-C	RL-310-1AB-3
F	MP0.5X3	RL-644-1AB-A	H	PL310-54	RL-310-1AB-3

See our complete Alphanumeric Cross Referencing Guide (Section 1). In the event you are unable to locate cross (s) in this catalog section.

Co.	Competitor Part Number	Royal Part Number
H	PL511-12-01NLOO	RL-511-1AB
H	PL511-12-01ZLOO	RL-511-1AB
H	PL511-12-02ZLOO	RL-511-1AB
H	PL511-12-C	RL-511-1AB
H	PL511-151	RL-511-1AB
H	PL511-151N	RL-511-1AB
H	PL511-57	RL-511-1AB
H	PL511-57N	RL-511-1AB
H	PL518-12-03NLOO	RL-518-1AB-3
H	PL518-12-C	RL-518-1AB-3
H	PL518-358	RL-518-1AB-3
H	PL718-01-CN	RL-718-1AB
H	PL718-01-CNB	RL-718-1AB
H	PL718-01-CNR	RL-718-1AB-1
H	PL718-118	RL-718-1AB
H	PL718-118A	RL-718-1AB
H	PL718-118J	RL-718-1AB
H	PL718-118N	RL-718-1AB
H	PL718-12	RL-618-1AB-3A
H	PL718-12-03NLOO	RL-718-1AB-1
H	PL718-12-03OLOO	RL-618-1AB-3A
H	PL718-12-03ZLOJ	RL-718-1AB-1
H	PL718-12-03ZLOO	RL-718-1AB-1
H	PL718-12-04NLOO	RL-718-1AB
H	PL718-12-04ZLOO	RL-718-1AB
H	PL718-12-04ZNOO	RL-718-1AB
H	PL718-12-C	RL-718-1AB
H	PL718-12-CN	RL-718-1AB
H	PL718-12-CNR	RL718-1AB-1
H	PL718-12-CNV	RL-718-1AB-V

See our complete Alphanumeric Cross Referencing Guide (Section 1). In the event you are unable to locate cross (s) in this catalog section.



Filter Manufacturing Company

Specializing in quality replacement elements for industry

Made in the USA

Royal Filter utilizes the latest modern manufacturing equipment and techniques. Our pleaters and cure ovens give us the capability to produce a variety of different elements, utilizing single piece construction, up to 60" in length. Working with our various long term suppliers, and through our continuing employee training and emphasis on quality, we offer a superior quality product at a competitive price.

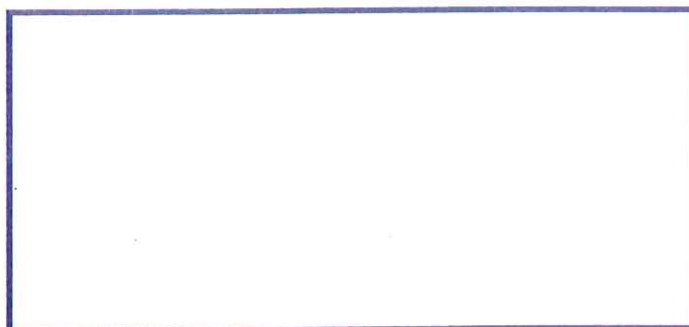
Our modern 48,000 square foot manufacturing facility is designed to allow a smooth, efficient flow of products, from incoming raw materials to outgoing shipments of finished product. This helps to insure prompt, on time deliveries.

Our elements are constructed of the highest quality components. Many different styles of cartridges, medias, and materials of construction are available to fit your specific application.

Customer Service

- Toll Free number to call for orders, assistance, or information: 1-800-256-2559
- LTL shipments are palletized at no charge
- Our central US. location reduces freight costs and transit time
- Excellent freight discounts offered to our customers
- Third party freight billing and freight quotes are available at no additional charge
- Excellent competitor & OEM cross reference information available. Consult factory
- Special elements can be designed, tested, and manufactured to customer specifications
- A firm commitment from ROYAL FILTER MANUFACTURING to excellence in product quality, prompt delivery, and customer satisfaction

For the Royal Filter Distributor nearest you, contact



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www.royalfilter.com

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