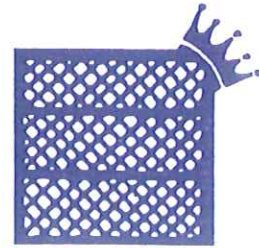


---

# ROYAL



## FILTER MANUFACTURING COMPANY

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



## Synthetic Media Cartridges

### RSLH Series

[www.royalfilter.com](http://www.royalfilter.com)

---

**Features**

- \* High performance replacements for pleated paper cartridges
- \* Upgrade your oil filtration using existing housings
- \* Superior filtration efficiency
- \* Long-life durability
- \* Low pressure drop
- \* High flow rates
- \* High dirt holding capacity
- \* Direct interchangeable with standard pleated paper cartridges
- \* Multi-layer synthetic media with Epoxy coated wire mesh backing.

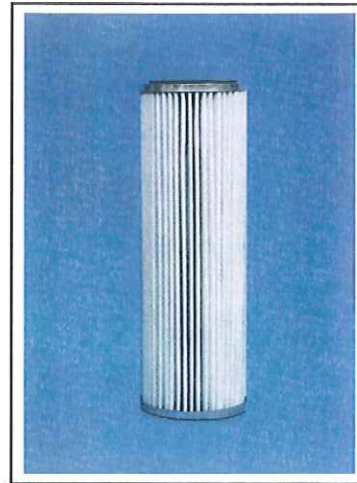


Photo of RSLH-718-1/2 with Microglass Media and Wire Mesh Backing

Royal Filter synthetic media cartridges are offered in a variety of cartridge configurations and sizes to replace current industry cartridges. These cartridges are used in water based fluids, chemicals, and a wide range of petroleum products. Royal synthetic cartridges stand up to continued use in water based fluids, or in fluids with a high water content, without the softening or deterioration common with some resin impregnated paper cartridges.

The RSLH series is constructed of either micro glass or polyester media, depending on the micron retention rating. The media(s) for this series is wire backed for pleat stability and support. End caps are tin plated steel. Center cores are spiral formed, perforated tin plated steel. Buna gaskets and thermosetting PVC adhesives are standard. Epoxy adhesives and other gasket materials are available for special application. The RSLH series cartridges do not have an outer body unless requested. Example: RSLH-718-5P is with an outer perf body, whereas the RSLH-718-5 is without. Certain elements are supported with the epoxy coated wire mesh on both the up stream as well as on the down stream sides. Example: Hilco part number PH718-01-CN crosses to our part number RSHL-718-1-2. Also, they are constructed in the same manner as the example above with the inclusion of an outer perforated metal body. These are identified with the trailer of -2P on the end of their part number. Example: Donaldson part number P16-6462 crosses to our part number RSLH-618-5-2P.

**Efficiency Ratings**

RSLH cartridges are available in nominal micron ranges of 1/2 to 40 microns. The 1/2 through 15 micron cartridges

are constructed using polyester supported micro glass with epoxy coated wire mesh backing. The 20 through 40 micron cartridges, utilized primarily for industrial water application, are constructed using synthetic polyester media with the epoxy wire mesh backing.

The chart below shows nominal and absolute micron retention ratings.

Nominal Micron Rating	Absolute Micron Rating (BETA =75)
1/2	1
1	3
3	6
5	12
10	15
20	N/A
25	N/A
40	N/A

Replacements are available for various manufacturers' and OEM cartridges. Please consult our cross reference for interchange information.

**Applications**

- \* Hydraulic Oils
- \* Turbine Lube Oils
- \* Water Soluble Oils
- \* Paper Machine Lube Oils
- \* Synthetic Base Oils
- \* Compressor Lube Oils
- \* Seal Oils
- \* Cutting Coolants
- \* Rolling Mill Oils
- \* Chemicals

**Replacements For:**

- \* Hilco
- \* Kaydon
- \* Nugent
- \* Refiler
- \* Velcon
- \* Others



## RSLH SERIES SYNTHETIC MEDIA CARTRIDGE SPECIFICATIONS

PART NUMBER	OD	LG	ID	COMMENTS
RSLH-310-5	2 1/2	9 7/8	1 1/16	
RSLH-310-5-3	2 1/2	9 11/16	1 1/16	Hilco replacement
RSLH-511-5	4 1/2	11	1 3/4	
RSLH-518-5-3	4 1/2	18	2 5/8	Hilco replacement
RSLH-614-5	6	14 1/2	3 1/2	
RSLH-618-5	6	18	3 1/2	
RSLH-618-5-3	6	18	3 3/16	Core, no body, Hilco Replacement
RSLH-718-5	6	18	2 5/8	No body
RSLH-718-5-1	6	18	2 1/8	
RSLH-718-5-2	6	18	2 5/8	Wire backing both sides of media
RSLH-718-5-2P	6	18	2 5/8	Perf body, wire backing both sides of media
RSLH-718-5EXV	6	18	2 5/8	Viton Gaskets, Epoxy Adhesives
RSLH-718-5P	6	18	2 5/8	Perforated outer body
RSLH-718-5TP	6	18	3	3" Thread Base, perf body, Filterdyne Repl
RSLH-736-5	6	36	2 5/8	
RSLH-736-5-1	6	36	2 1/8	
RSLH-736-5-2	6	18	2 5/8	Wire backing both sides of media
RSLH-736-5P	6	36	2 5/8	Perforated outer body
RSLH-736-5PH	6	36	2 5/8	W/ Handle & Buna gaskets
RSLH-736-5TP	6	36	3	3" Thread Base, perf body, Filterdyne Repl
RSLH-7618-5	6	18	3 1/2 X 2 5/8	Nugent Replacement
RSLH-7636-5	6	36	3 1/2 X 2 5/8	
RSLH-636-5-3	6	36	3 3/16	Core, No body, Single pc Double Length PLH718-5ECB replacement

- NOTES**
1. Particulate removal - Elements available in 1/2, 1, 3, 5, 10, 25 & 40 25 & 40 micron nominal ratings.
  2. Dimensions are listed for 5 micron elements only. Elements with other micron ratings have the same dimensions as the 5 micron element
  3. Recommended change out pressure - 25 PSID or 1 year, whichever occurs first
  4. Consult the factory for information on sizing, flow rates, and other technical information.
  5. Elements are standard with Buna gaskets unless otherwise noted.
  6. Elements are standard with tin plated steel center cores and with no outer bodies
  7. RSLH cartridges are constructed with either synthetic polyester media (20 - 40 micron) or polyester supported microglass media (1/2-10 micron). Media for the RSLH series is pleated with wire backing for additional pleat support and stability.

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  
 AL = Arial  
 CB = Cooper Bessemer  
 CM = C & M Filtration  
 D = Donaldson  
 FIL = Filterdyne  
 FRI = Frick  
 FT = Fluitek

H = Hilco  
 K = Kaydon  
 M = Murphy  
 N = Nugent  
 R = Refilco  
 SU = Sunnen  
 V = Velcon

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
N	01-535-018	RSLH-7618-10	V	FOS-636PL05	RSLH-736-5
N	01-535-019	RSLH-7630-10	V	FOS-636PL1/2	RSLH-736-1/2
FRI	531A0024H01	RSLH-514-5-2CE	V	FOS-636PLP8	RSLH-736-1
FRI	531A0224H01	RSLH-514-5-2CE	V	FOS-718PL25	RSLH-718-25
CB	654-241-001	RSLH-734-5-2CE	AFT	H511-1-1	RSLH-511-1-VF
AL	A3066	RSLH-7618-10	AFT	H511-10-1	RSLH-511-10-VF
K	A910199	RSLH-718-1/2P	AFT	H511-3-1	RSLH-511-3-VF
K	A910200	RSLH-736-1/2PH	AFT	H511-5-1	RSLH-511-5-VF
K	A910244	RSLH-718-3P	AFT	H511-5B	RSLH-511-5
K	A910245	RSLH-736-3PH	AFT	H518-1	RSLH-518-1-3
CM	CM-618-1033	RSLH-718-10P	AFT	H518-10	RSLH-518-10-3
CM	CM-618-1034	RSLH-718-3P	AFT	H518-3	RSLH-518-3-3
CM	CM-618-1035	RSLH-718-1/2P	AFT	H518-5	RSLH-518-5-3
CM	CM-636-1082	RSLH-736-10PH	AFT	H636-1-2	RSLH-7636-1
CM	CM-636-1083	RSLH-736-2PH	AFT	H636-10-2	RSLH-7636-10
CM	CM-636-1084	RSLH-736-1/2PH	AFT	H636-5-2	RSLH-7636-5
CM	CM-636-1088	RSLH-736-10TP	AFT	H718-10B	RSLH-718-10-1
CM	CM-636-1089	RSLH-736-3TP	AFT	H718-10ECB	RSLH-618-10-3
FIL	FE-618-1030	RSLH-718-10TP	AFT	H718-10FPB	RSLH-718-10
FIL	FE-618-1030V	RSLH-718-10TPV	AFT	H718-1B	RSLH-718-1-1
FIL	FE-618-1031	RSLH-718-5TP	AFT	H718-1ECB	RSLH-618-1-3
FIL	FE-618-1032	RSLH-718-1/2TP	AFT	H718-1FPB	RSLH-718-1
FIL	FE-618-1032V	RSLH-718-1/2TPV	AFT	H718-1FPB-1	RSLH-718-1P
FIL	FE-618-1033	RSLH-718-10P	AFT	H718-1/2B	RSLH-718-1/2-1
FIL	FE-618-1034	RSLH-718-5P	AFT	H718-1/2ECB	RSLH-618-1/2-3
FIL	FE-618-1035	RSLH-718-1/2P	AFT	H718-1/2FPB	RSLH-718-1/2
FIL	FE-636-1082	RSLH-736-10PH	AFT	H718-1/2FPB-1	RSLH-718-1/2P
FIL	FE-636-1083	RSLH-736-5PH	AFT	H718-20B	RSLH-718-25-1
FIL	FE-636-1084	RSLH-736-1/2PH	AFT	H718-20ECB	RSLH-618-25-3
FIL	FE-636-1088	RSLH-736-10TP	AFT	H718-20FPB	RSLH-718-25
FIL	FE-636-1089	RSLH-736-5TP	AFT	H718-3B	RSLH-718-3-1
FIL	FE-636-1090	RSLH-736-1/2TP	AFT	H718-3ECB	RSLH-618-3-3
V	FOS-512PL25	RSLH-512-25	AFT	H718-3FPB	RSLH-718-3
V	FOS-614PL05	RSLH-614-5	AFT	H718-3FPB-1	RSLH-718-3P
V	FOS-618PL05	RSLH-718-5	AFT	H718-40FPB	RSLH-718-40
V	FOS-618PL1/2	RSLH-718-1/2	AFT	H718-5B	RSLH-718-5-1
V	FOS-618PLP8	RSLH-718-1	AFT	H718-5ECB	RSLH-618-5-3

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
AFT	H718-5FPB	RSLH-718-5	H	PH310-03-C	RSLH-310-3-3
AFT	H718-5FPB-1	RSLH-718-5P	H	PH310-05-C	RSLH-310-5-3
AFT	H736-10B	RSLH-736-10-1	H	PH310-10-C	RSLH-310-10-3
AFT	H736-10FPB	RSLH-736-10	H	PH310-12-C	RSLH-310-1/2-3
AFT	H736-1B	RSLH-736-1-1	H	PH310-20-C	RSLH-310-20-3
AFT	H736-1FPB	RSLH-736-1	H	PH310-40-C	RSLH-310-40-3
AFT	H736-1FPB2	RSLH-736-1-2	H	PH511-01-C	RSLH-511-1
AFT	H736-1/2B	RSLH-736-1/2-1	H	PH511-03-C	RSLH-511-3
AFT	H736-1/2FPB	RSLH-736-1/2	H	PH511-05-C	RSLH-511-5
AFT	H736-1/2FPB-1	RSLH-736-1/2P	H	PH511-10-C	RSLH-511-10
AFT	H736-20B	RSLH-736-25-1	H	PH511-12-C	RSLH-511-1/2
AFT	H736-20FPB	RSLH-736-25	H	PH511-20-C	RSLH-511-20
AFT	H736-20FPB2	RSLH-736-25-2	H	PH511-40-C	RSLH-511-40
AFT	H736-3B	RSLH-736-3-1	H	PH518-01-C	RSLH-518-1-3
AFT	H736-3FPB	RSLH-736-3	H	PH518-01-CR	RSLH-518-1-3
AFT	H736-3FPB-1	RSLH-736-3P	H	PH518-03-C	RSLH-518-3-3
AFT	H736-3FPB2	RSLH-736-3-2	H	PH518-03-CR	RSLH-518-3-3
AFT	H736-40FPB	RSLH-736-40	H	PH518-05-C	RSLH-518-5-3
AFT	H736-5B	RSLH-736-5-1	H	PH518-05-CR	RSLH-518-5-3
AFT	H736-5FPB	RSLH-736-5	H	PH518-10-C	RSLH-518-10-3
AFT	H736-5FPB-1	RSLH-736-5P	H	PH518-10-CR	RSLH-518-10-3
AFT	H736-5FPB2	RSLH-736-5-2	H	PH518-12-C	RSLH-518-1/2-3
K	K-1000	RSLH-736-2PH	H	PH518-12-CR	RSLH-518-1/2-3
K	K-4000	RSLH-736-1/2PH	H	PH518-20-C	RSLH-518-20-3
K	KM 6018-05	RSLH-718-1/2P	H	PH518-20-CR	RSLH-518-20-3
K	KM 6018-15	RSLH-718-15P	H	PH518-40-C	RSLH-518-40-3
K	KM 6018-2	RSLH-718-2P	H	PH518-40-CR	RSLH-518-40-3
K	KM 6018-3	RSLH-718-3P	H	PH718-01	RSLH-618-1-3
K	KM 6036-05	RSLH-736-1/2PH	H	PH718-01-C	RSLH-718-1
K	KM 6036-15	RSLH-736-15PH	H	PH718-01-CN	RSLH-718-1-2
K	KM 6036-2	RSLH-736-2PH	H	PH718-01-CNV	RSLH-718-1EXV
K	KM 6036-3	RSLH-736-3PH	H	PH718-01-CR	RSLH-718-1-1
M	MPG-636206	RSLH-736-2PH	H	PH718-01-CRN	RSLH-718-1-1
M	MPG-636555	RSLH-736-1/2PH	H	PH718-01-CRNV	RSLH-718-1-1EXV
FT	P 060180-1UB	RSLH-718-1	H	PH718-03	RSLH-618-3-3
FT	P 060180-5UB	RSLH-718-5	H	PH718-03-C	RSLH-718-3
FT	P 4611-3G	RSLH-511-3	H	PH718-03-CN	RSLH-718-3-2
FT	P 4611-5G	RSLH-511-5	H	PH718-03-CNV	RSLH-718-3EXV
FT	P 6018-2K	RSLH-718-2	H	PH718-03-CR	RSLH-718-3-1
FT	P 6018-5G2S	RSLH-718-5	H	PH718-03-CRN	RSLH-718-3-1
FT	P 6036-10G	RSLH-736-10	H	PH718-03-CRNV	RSLH-718-3-1EXV
FT	P 6036-25G2	RSLH-736-25	H	PH718-03CNVGE	RSLH-718-3EXV
D	P16-6462	RSLH-618-5-2P	H	PH718-05	RSLH-618-5-3
D	P16-6474	RSLH-618-10-2P	H	PH718-05-C	RSLH-718-5
D	P17-0102	RSLH-718-5-2P	H	PH718-05-CN	RSLH-718-5-2
D	P17-3543	RSLH-718-5-2P	H	PH718-05-CNV	RSLH-718-5EXV
D	P17-4625	RSLH-718-5-2P	H	PH718-05-CR	RSLH-718-5-1
D	P17-8729	RSLH-718-5-2P	H	PH718-05-CRN	RSLH-718-5-1
SU	PF-110	RSLH-614-10-1	H	PH718-05CNVGE	RSLH-718-5EXV
H	PH310-01-C	RSLH-310-1-3	H	PH718-1-CRNV	RSLH-718-1-1EXV

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
H	PH718-10	RSLH-618-10-3	R	PLH 718-3B	RSLH-718-3-1
H	PH718-10-C	RSLH-718-10	R	PLH 718-3ECB	RSLH-618-3-3
H	PH718-10-CN	RSLH-718-10-2	R	PLH 718-3FCB	RSLH-718-3
H	PH718-10-CR	RSLH-718-10-1	R	PLH 718-40B	RSLH-718-40-1
H	PH718-10-CRN	RSLH-718-10-1	R	PLH 718-40ECB	RSLH-618-40-3
H	PH718-11CN	RSLH-718-10-2	R	PLH 718-40FCB	RSLH-718-40
H	PH718-12	RSLH-618-1/2-3	R	PLH 718-5B	RSLH-718-5-1
H	PH718-12-C	RSLH-718-1/2	R	PLH 718-5ECB	RSLH-618-5-3
H	PH718-12-CN	RSLH-718-1/2-2	R	PLH 718-5FCB	RSLH-718-5
H	PH718-12-CNV	RSLH-718-1/2EXV	R	PLH 736-10ECB	RSLH-636-10-3
H	PH718-12-CR	RSLH-718-1/2-1	R	PLH 736-10FPB	RSLH-736-10
H	PH718-12-CRN	RSLH-718-1/2-1	R	PLH 736-1FPB	RSLH-736-1
H	PH718-12-CRNV	RSLH718-1/21EXV	R	PLH 736-1/2B	RSLH-736-1/2-1
H	PH718-20	RSLH-618-20-3	R	PLH 736-1/2ECB	RSLH-636-1/2-3
H	PH718-20-C	RSLH-718-20	R	PLH 736-20FPB	RSLH-736-20
H	PH718-20-CN	RSLH-718-20-2	R	PLH 736-5-5	RSLH-736-5-1P
H	PH718-20-CNV	RSLH-718-20EXV	R	PLH 736-5-5A	RSLH-736-5P
H	PH718-20-CR	RSLH-718-20-1	R	PLH 736-5B	RSLH-736-5-1
H	PH718-20-CRN	RSLH-718-20-1	R	PLH 736-5ECB	RSLH-636-5-3
H	PH718-40	RSLH-618-40-3	R	PLH 736-5FPB	RSLH-736-5
H	PH718-40-C	RSLH-718-40			
H	PH718-40-CN	RSLH-718-40-2			
H	PH718-40-CR	RSLH-718-40-1			
H	PH718-40-CRN	RSLH-718-40-1			
R	PLH 310-10B	RSLH-310-10-3			
R	PLH 310-1B	RSLH-310-1-3			
R	PLH 310-1/2B	RSLH-310-1/2-3			
R	PLH 310-20B	RSLH-310-20-3			
R	PLH 310-3B	RSLH-310-3-3			
R	PLH 310-40B	RSLH-310-40-3			
R	PLH 310-5B	RSLH-310-5-3			
R	PLH 511-10B	RSLH-511-10			
R	PLH 511-1B	RSLH-511-1			
R	PLH 511-1/2B	RSLH-511-1/2			
R	PLH 511-20B	RSLH-511-20			
R	PLH 511-3B	RSLH-511-3			
R	PLH 511-40B	RSLH-511-40			
R	PLH 511-5B	RSLH-511-5			
R	PLH 718-10B	RSLH-718-10-1			
R	PLH 718-10ECB	RSLH-618-10-3			
R	PLH 718-10FCB	RSLH-718-10			
R	PLH 718-1B	RSLH-718-1-1			
R	PLH 718-1ECB	RSLH-618-1-3			
R	PLH 718-1FCB	RSLH-718-1			
R	PLH 718-1/2B	RSLH-718-1/2-1			
R	PLH 718-1/2ECB	RSLH-618-1/2-3			
R	PLH 718-1/2FCB	RSLH-718-1/2			
R	PLH 718-20B	RSLH-718-20-1			
R	PLH 718-20ECB	RSLH-618-20-3			
R	PLH 718-20FCB	RSLH-718-20			





## 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.

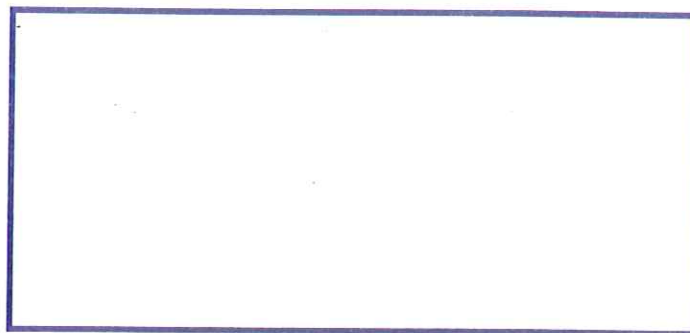
Our modern 48,000 square foot manufacturing facility is designed to allow a smooth, efficient flow of products, from incoming raw materials to outgoing shipments of finished product. This helps to insure prompt, on time deliveries.

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***



Royal Filter Manufacturing  
4327 South Fourth Street  
Chickasha, OK 73018

Phones: (405) 224-0229  
(800) 256-2559  
Fax: (405) 224-9174

Visit our website at  
[www.royalfilter.com](http://www.royalfilter.com)