

## INDUSTRIAL COALESCER CARTRIDGES



### Description

Purolator industrial coalescer cartridges provide efficient and economical filtration and coalescence of fluids in a wide range of applications where API certification is not required. This broad range of liquid/liquid coalescers provides greater coalescing efficiency and contaminant holding capacity than most conventional coalescers or other separation techniques. As a result, Purolator industrial coalescers improve product quality, reduce maintenance costs and help prevent unscheduled shutdowns.

Purolator industrial coalescer cartridges are manufactured using proprietary combinations of high performance filter media. Years of research and development in phase separation technology has enabled Purolator to develop a very broad range of filter grades to meet the stringent requirements of industrial applications.

Purolator industrial coalescer cartridges are available in numerous configurations to replace most conventional coalescing cartridges. In addition, Purolator can develop special configurations to meet specific applications requirements.

### Benefits

- High Performance filter media provides effective particle removal and coalescence in a wide range of applications.
- Proprietary design provides superior performance when compared to conventional coalescing cartridges.
- Continuous lengths minimize process downtime, reduce cartridge change-out costs and eliminate filter bypass concerns.
- Retention ratings available from 1 to 40 microns.
- 90-95% nominal efficiency solids removal ratings. Water removal to 15 ppm.
- Electro-tin plated components help prevent rust and corrosion. Coated components are available as standard options.
- 75 psid burst strength permits use in demanding applications.

### Applications

- Chemicals, Resins, and Solvents
- Hydraulic Oils
- Hydrocarbons
- Petroleum Refining
- Pipelines and Petroleum Terminals
- Power Generation
- Pulp and Paper Industry
- Transformer Oils
- Turbine Oils

## Performance Specifications

NOMINAL PARTICULATE REMOVAL, MICRON	1	2	5	10	15	20	25	30	40
PCR Series		•							
PCB Series			•						
PCC Series							•		
PCIC Series	•	•	•	•	•	•	•	•	•

## Free Water Removal Specifications

PPM FREE WATER, LESS THAN	5	10	15	20	40
PCR Series		•	•	•	•
PCB Series			•	•	•
PCC Series				•	•
PCIC Series	•	•	•	•	•

## Materials of Construction

### Filter Media Options:

PCR, PCB, PCC Series: 2-25 micron: Combination fiberglass and cellulose medias with outer sock.

PCIC Series: 1-40 micron: Wet glass shell, pleated media section and outer glass section with or without outer sock.

### Gasket Materials:

Standard: Buna N (Standard)  
Optional: Vegetable Fiber, Neoprene, Viton,<sup>®</sup> Non-asbestos Replacement

### Metal Components:

Standard: Electro-tin Plated Components  
Optional: Powder Coated Epoxy Components  
Optional (PCIC Only): Non-metal components and synthetic end caps.

### Adhesives:

Thermoset PVC  
Urethane  
Epoxy

## Temperature/Compatibility Guide

Media Series	Maximum Temperature	pH Range	Petroleum Products	Chemicals
PCR, PCB, PCC	240° F	5-9	Excellent	Good
PCIC	225° F	5-9	Excellent	Good

## Filter Sizes & Dimensions

Dimensions—nominal

SERIES	OD (inches)	ID (inches)	LENGTH (inches)
PCZ11-X	6	3 1/2	11 1/4
PCZ14-X	6	3 1/2	14 1/2
PCZ22-X	6	3 1/2	22 1/4
PCZ28-X	6	3 1/2	28 3/4
PCZ28-SB	6	3 1/2	29
PCZ33-X	6	3 1/2	33 1/4
PCZ33-SB	6	3 1/2	34
PCZ43-X	6	3 1/2	43 1/4
PCZ43-SB	6	3 1/2	45
PCZ56-X	6	3 1/2	57 1/4
PCZ56-SB	6	3 1/2	57
PCIC11-X	6	3 1/2	11 1/4
PCIC14-X	6	3 1/2	14 1/2
PCIC22-X	6	3 1/2	22 1/4
PCIC28-X	6	3 1/2	28 3/4
PCIC28SB-X	6	3 1/2	29
PCIC33-X	6	3 1/2	33 1/4
PCIC33SB-X	6	3 1/2	34
PCIC43-X	6	3 1/2	43 1/4
PCIC43SB-X	6	3 1/2	45
PCIC56-X	6	3 1/2	56 1/4
PCIC56SB-X	6	3 1/2	57

Note: There are many other sizes and combinations, not listed here, that are available. Please contact Purolator for assistance with special sizes and deliveries.

Z = Series designation  
X = Micron rating

Note: Water removal ratings are based on kerosene type fuel, S.G.0.78 and viscosity of 33 SSU at 70° F and recommended flow rates. Removal efficiencies will vary with S.G., viscosity, temperature, and flow rate. Please consult Purolator for exact sizing and removal ratings.

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## Cartridge Ordering Information

Series	Cartridge Dimensions	End Configuration	Micron Rating	Special Features
PCB	28	SB	-5	
PCB, PCR, PCC, PCIC	See Filter Sizes and Dimensions table.	No Symbol = Double Open End SB = Screw Base	-1, -2, -5, -10, -15, -20, -25, -30, -40 µm	No Symbol = Buna N J = Non-Asbestos N = Neoprene T = Tin Steel Components V = Viton

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