



ZetaCarbon™

Filter Cartridge and Capsules

The Smarter Way For Carbon Use

Featuring:

- Carbon immobilised within a filter matrix
- Scale-up from disc to sheet and cartridge
- Wide range of different carbons available



ZetaCarbon: The efficient way to decolourise your process liquids

ZetaCarbon incorporates the latest technology to decolourise and remove contaminants from your process streams. ZetaCarbon eliminates the concerns of using powdered carbon. In today's manufacturing processes, efficiency, yield, quality and consistency are critical as well as operating in a safe environment for operators. Bulk carbon can also be a limiting step in many operations preventing enhanced yields and increased production batches. ZetaCarbon addresses all of these concerns.

Bulk Activated Carbon

Activated carbon is a highly porous carbonaceous material that is characterised by a large internal surface area providing exceptional adsorptive properties. Pores within the structure can be classified into different categories depending on their size: micropores (<10 nm range), mesopores (10-25 nm range) and macropores (larger than >25 nm).

Activated carbon can be produced from different sources such as peat, lignite, pine wood, coconut shell, etc. The raw material influences the pore structure of the activated carbon; as an example, activated carbon made from pinewood has a wide distribution of micro, meso and macro pores, whereas activated carbon obtained from coconut shell is typically microporous.

Two ways of activation used today to create the porosity and internal structure are steam and chemical activation. In practice steam activation leads to a greater degree of microporosity while chemical activation makes a more macroporous / mesoporous structure.

The porous structure gives the activated carbon a very large internal surface area (larger than $500 \text{ m}^2\text{g}^{-1}$) which allows the activated carbon to be efficient in adsorbing a wide range of molecules. Adsorption is caused by Van der Waals' type forces. These short-range interactions are influenced by the nature of the molecule being adsorbed, such as its molecular weight and the presence of functional groups (double bonds, halogen).

Figure 1 and Figure 2 show activated carbon and ZetaCarbon medium.

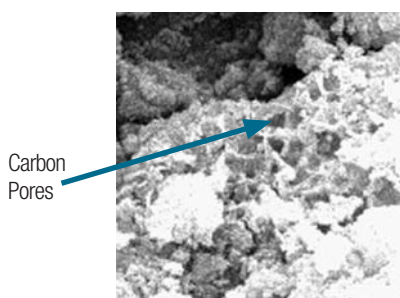


Figure 1:
Activated Carbon

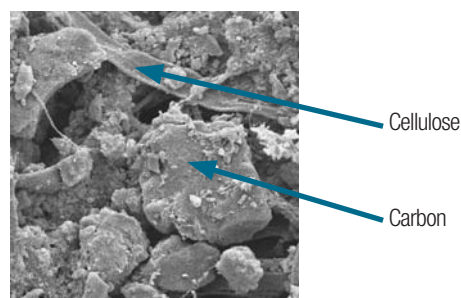


Figure 2:
ZetaCarbon Medium

ZetaCarbon Principle

The activated carbon is made into ZetaCarbon filter media by the addition of cellulose fibres and a binder resin. This eliminates the use of bulk carbon that causes dust-related issues, especially for operators.

3M Purification incorporate in its standard range five different types of activated carbon to cover a broad range of applications.

These have been specifically selected for their properties to meet industry requirements. ZetaCarbon filter media are available in different porosities so that solutions with different viscosities can be processed.

All the 3M Purification ZetaCarbon filter media available meet the market requirements whether 21 CFR or USP Class VI plastics compliance is required, with the necessary traceability and documentation.

The Drug Master File (DMF) and further technical details are available in the Regulatory Support File for ZetaCarbon filter media.



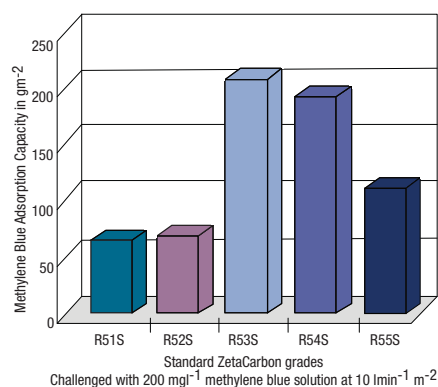
Advantages of using ZetaCarbon versus Bulk Activated Carbon

The concept of using activated carbon immobilised in a cellulose matrix brings a lot of advantages compared to bulk powder.

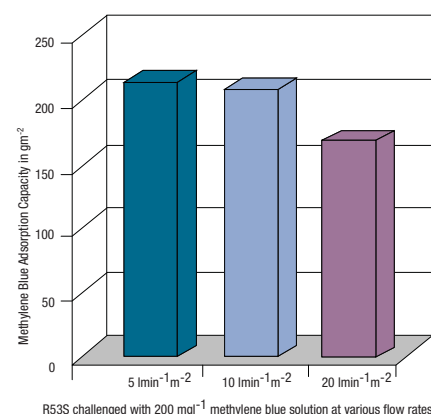
Some of the advantages of using ZetaCarbon are summarised in the Table 1 below:

Table 1: Advantages of ZetaCarbon Compared To Bulk Activated Carbon		
	Bulk Activated Carbon	ZetaCarbon Advantage
Carbon dust	Health issues: • Lung disease • Adsorbs oxygen Safety: • Fire risk	• Less fire risk and almost no carbon dust.
Cleanliness	Production environment Production process: • Time consuming • Costly • Rarely 100% clean • Batch to batch contamination • Downstream carry over	• Clean product • After initial flush of the cartridge, there is minimal release of carbon fines in the filtered solution
Process times	• Long due to contact time, preparation time and removal time	• Decreased process time because of constant flow rate filtration and efficiency • No product rework because of consistent performance
Carbon powder	• Relies on diffusion of contaminants to reach active site • Additions of filter aid required to remove carbon	• Activated carbon is fixed and the flow is forced through the matrix that increases efficiency
Process Steps	• A filtration step is required to remove the carbon • Carry over to solvent recovery plants	• A single step is used as decolourisation is combined with the filtration step Reduced costs in solvent recovery

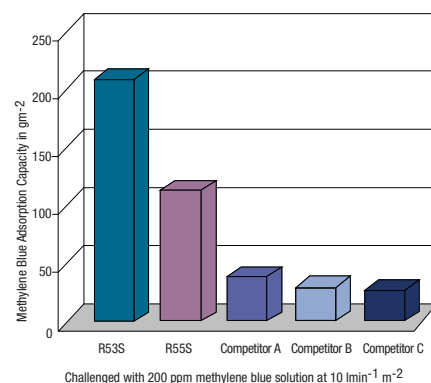
Graph 1: Adsorption Capacity of 3M Purification ZetaCarbon



Graph 2: Adsorption Capacity of 3M Purification ZetaCarbon R53S



Graph 3: Adsorption Capacity of Different Activated Carbon Media



Decolourisation efficiency of ZetaCarbon

The methylene blue value is widely used by activated carbon manufacturers as a reference for decolourisation efficiency. This molecule has a 8 nm diameter, which means that it has the ability to enter pores with a diameter larger than 8 nm. In the glucose syrup industry (where activated carbon is used to remove a colour precursor called methyl-hydroxy-furfural) and in pharmaceutical and chemical synthesis (where many contaminants and by products are formed), activated carbon with high methylene blue value is beneficial. ZetaCarbon media can also be characterised by their methylene blue value.

Methylene blue test

Graph 1 shows the methylene blue adsorption capacity of several 3M Purification standard ZetaCarbon grades. Methylene blue tests cannot be used to universally describe and compare ZetaCarbon performance.

In every product, the nature of the molecules to adsorb varies, and it is always recommended to perform a bench scale test to identify the most efficient ZetaCarbon grade rather than selecting it only on methylene blue value.

Flow rate influence

As discussed earlier, adsorption of molecules by activated carbon relies on Van der Waals' forces. As those interactions are of short range, contact time between the solution and the filter media is critical.

Graph 2 shows the influence of the flux on the adsorption capacity of the filter media.

It shows that when the flux increases the adsorption capacity of ZetaCarbon filter media decreases.

High decolourisation efficiency

Because of our advanced technology and our experience in manufacturing ZetaCarbon, 3M Purification incorporates into its filter media a high concentration of activated carbon.

This technology used in combination with a selection of the most efficient types of activated carbon on the market, enables ZetaCarbon to have high decolourisation capacity outperforming competitive media. Graph 3 shows the methylene blue adsorption capacity of some competitor media and ZetaCarbon R53S and R55S.

Evaluation and Scaling-up

3M Purification offers a range of ZetaCarbon products for laboratory-scale filtration, for process development scale-up work and for small lot production runs all the way to full scale. Biocap 25, 1000 and 2000 disposable devices have surface areas of 25 cm² through to 1300 cm² enabling development to scale-up. In addition, ZetaCarbon discs (47 mm and 90 mm diameter) are available. These are ideal for scale-up evaluation as working process volumes move from laboratory or bench-scale through pilot plant scale to full scale manufacturing operations. Numerous pharmaceutical and biotechnology companies world-wide have scaled-up reliably and predictably to high area 12 inch and 16 inch diameter cartridge systems using small surface area ZetaCarbon discs supplied in the 3M Purification filtration test kit, with the assistance of scientists from 3M Purification Scientific Application Support Services (SASS).

ZetaCarbon filtration is scaled up using a fixed filter flux (fluid flow rate per effective filtration area). ZetaCarbon should be evaluated initially at a recommended flux of 3 l/min⁻¹m⁻². However, there are some successful applications where flux is much higher than this recommended value, whilst maintaining high adsorption efficiency.

Applications

ZetaCarbon can be used in any application where bulk activated carbon is involved. It is widely used in the following applications:

Pharmaceutical

- Decolourisation in production of vitamins, antibodies, dextrose, gelatine enzymes
- Parenterals
- Blood fractionation
- Pesticide removal from plant extracts

Chemicals

- Bulk pharmaceutical actives and intermediates
- Decolourisation of solvents
- Decolourisation of fine chemicals
- Removal of organic contaminants

Cosmetics

- Alcohol deodorization
- Decolourisation of perfumes

Food and Beverage

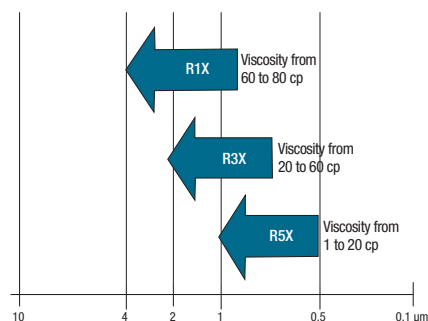
- Removal of trace organic contaminants from gelatine, pectin, juices, oils
- Decolourisation of wine and cider
- Decolourisation of sugar
- Spirit purification
- Fatty haze removal

Specific applications are summarised in the following table 2.

Table 2: Applications of ZetaCarbon	
Application	Recommended Grade
Antibiotic decolourisation	R33S, R53S, R35S, R55S
Endotoxin removal	R53S
Removal of detergent	R32S, R52S
Removal of precipitation agent	R33S, R53S
Vaccine purification	R33S, R53S
Decolourisation of antihistamine	R33S, R53S
Solvent decolourisation e.g. acetone	R31S, R51S
Removal of trace organic contaminants from active compounds	R31S, R51S, R34S, R54S
Removal of trace organic contaminants from X-Ray contrast media	R33S, R53S
Blood fractionation: albumin decolourisation, pKa reduction, biliverdin removal	R33S, R53S
Trace contaminant removal from Vodka, Whisky and Gin	R31S, R51S
Silicon oil decolourisation	R11S, R14S



Graph 4: Types of Media for Different Fluid Viscosities



Grades of ZetaCarbon

ZetaCarbon is available in different filtration ratings in order to deal with products of different viscosity. Graph 4 can be used as a guide for optimum filter selection: Different types of carbon can be specified from our “A La Carte” range. This can minimise validation for ease of ZetaCarbon implementation into the process. Please see our ordering guide for more detail.

Cartridge construction

Cartridge construction and compression system ensures integrity in severe environments including *in-situ* steam sterilisation and hot water sanitation. The edge seal design for durable cell construction maintains integrity under the most demanding process conditions.

Filter housing

3M Purification offers a wide range of sanitary filter housings (standard and custom designs) for ZetaCarbon cartridges. To comply with the regulations in the pharmaceutical and bioprocessing industry, these filter housings are in 316L stainless steel or Hastelloy™* with mirror polished or electropolished surface finish. We are also able to supply a range of housing accessories, such as CIP spray-ball, optimised maximum volume recovery system and the innovative Zeta Plus Cartridge Lifting Device.

Extractables

Inorganic and organic extractable testing was performed on ZetaCarbon media with a variety of fluids.

More information on extractables is included in the Regulatory Support File (RSF) or can be obtained from 3M Purification Scientific Application Support Services (SASS).

As an indication, the following table gives typical level of metal extractables (mgg⁻¹ of medium).

	Al	Ca	Fe	Mg	Fe	Si	Na
R51S	0.005	0.355	0.016	0.023	0.048	0.033	0.069
R52S	<0.005	0.470	0.005	0.070	0.083	0.160	0.510
R53S	<0.005	0.240	0.010	0.015	0.033	0.023	0.062
R54S	<0.005	0.190	0.009	0.035	0.053	0.029	1.218
R55S	0.026	0.190	0.022	0.022	0.056	0.034	0.415

Operating parameters

Max operating temp	80 °C
Max differential pressure	2 bar
Recommended rinse volume	54 l/m ²
Recommended test flow rate	3 l/min ⁻¹ m ⁻²
Steam sterilisation	1 cycle at 121°C for 30 min

* Hastelloy™ is a trade mark of Haynes Int.

Pyrogenicity

The SP and SLP versions of ZetaCarbon are tested for pyrogenicity by the LAL gel clot test.

Acceptance criteria are:

SP: ----- $\leq$ 0.50 EU/ml

SLP: ----- $\leq$ 0.125 EU/ml

Quality Control

A complete quality assurance programme following ISO 9001 procedures guarantees total quality.

Each media batch is sample audited for flow, density and pyrogenicity for SP and SLP grades. For SP and SLP media, a quality control certificate is packed with the product. In addition, ZetaCarbon cartridge packaging is labelled with a batch identification to provide complete traceability from the raw materials to the finished product.

All 12" and 16" ZetaCarbon cartridges are supplied with the part and lot number engraved into the side of the gasket retainer. This individual engraving helps cartridge traceability once the filter is removed from the protective packaging and assists in regulatory compliance.

Scientific Applications Support Services (SASS)

3M Purification's 95+ years of experience are synonymous with quality, performance and high-level technical support. The cornerstone of 3M Purification's philosophy is service to customers, not only in product quality and prompt delivery, but also in validation assistance, applications support and in the sharing of scientific information. 3M Purification's Scientific Application Support Services group works closely with customers to solve difficult separations problems and to recommend the most economical and efficient filter system. SASS specialists are skilled in performing on-site testing and relating test results to full-scale manufacturing operations.

A World Leader in Fluid Purification

3M Purification's manufacturing sites have ISO registered quality systems. Global manufacturing together with trained stocking distributors and state-of-the-art laboratory support bring quality solutions to existing and challenging new filtration applications.



ZetaCarbon Ordering Information

1. Zeta Plus BC Capsules

Catalogue Number	Basic Cartridge Design - Effective Filter Area	Gasket Material**	Grade	Quality Grade
BC	0025 (Capsule, 25 cm ²)	L = Luer Lock S = Sanitary Flange	R11, R12, R13, R14, R15, R31, R32, R33, R34, R35, R51, R52, R53, R54, R55 "A la Carte" R10 + AC name R30 + AC name R50 + AC name	S SP SLP
BC	1000 (Capsule, 650 cm ²)	A = Single Filter B = 3 Filter Pack		
BC	2000 (Capsule, 1300 cm ²)			

Examples of entire product description: BC0025LR11SP, BC2000AR55S

8" Diameter Cartridges

Catalogue Number	Basic Cartridge Design - Effective Filter Area	Gasket Material**	Grade	Quality Grade
C08	D = 8", 7 cells, 0.23 m ² , DOE (Double open end)	E = PTFE	R11, R12, R13, R14, R15, R31, R32, R33, R34, R35, R51, R52, R53, R54, R55 "A la Carte" R10 + AC name R30 + AC name R50 + AC name	S SP SLP
C08	P = 8", 6 cells, 0.20 m ² , O-Ring Plug-in	Standard: A = Silicone (MVQ)		
C08	P4 = 8", 4 cells, 0.13 m ² , O-Ring Plug-in	Other: B = Fluorocarbon (FPM) C = Ethylene Propylene (EPDM) D = Nitrile (NBR)		
C08	P2 = 8", 2 cells, 0.065 m ² , O-Ring Plug-in			

12" Diameter Cartridges and 16" Diameter Cartridges*

Catalogue Number	Basic Cartridge Design - Effective Filter Area	Gasket Material**	Grade	Quality Grade
C12	D = 12", 13 cells, 1.30 m ² , DOE	Standard: A = Silicone (MVQ)	R11, R12, R13, R14, R15, R31, R32, R33, R34, R35, R51, R52, R53, R54, R55 "A la Carte" R10 + AC name R30 + AC name R50 + AC name	S SP SLP
C16	Y = 16", 14 cells, 3.20 m ² , High Flow, DOE	Other: B = Fluorocarbon (FPM) C = Ethylene Propylene (EPDM) D = Nitrile (NBR) E = PTFE		
C16	M = 16", 13 cells, 3.00 m ² , Standard, DOE			

* 8", 12" and 16" diameter cartridges, in Double Open End configuration, can be obtained with Hastelloy™ bands.

** Letter H should be added at the end of the part number (Other gasket materials are available).

Flat sheets and discs are also available upon request. Please contact your local 3M Purification representative or distributor for further support and information.

Important Notice

3M Purification MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Since a variety of factors can affect the use and performance of a 3M Purification product in a particular application, some of which are uniquely within the user's knowledge and control, user is responsible for determining whether or not the 3M Purification product is fit for a particular purpose and suitable for user's method of application.

Limited Warranty

3M Purification warrants it this product to be free from defects in material and workmanship during normal use for a period of one (1) year from the date of shipment from the factory. If the Product(s) is (are) defective within this warranty period, your exclusive remedy and 3M Purification's sole obligations shall be, at 3M Purification's option, to replace or repair the Product(s) or refund the original purchase price of the Product(s). This warranty does not apply to failures that result from abuse, misuse, alteration or damage not caused by 3M Purification or failure to properly follow installation and use instructions.

Limitation of Liability: 3M Purification will not be liable for any loss or damage arising from the use of the Product(s), whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights and you may have other rights which vary from state to state, or country to country.

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For more contact addresses visit our website www.3m.eu/filtration or www.3mpurification.com/international.

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C08DER12SP	C08PAR12SP	C08PBR12SP	C08PCR12SP	C08PDR12SP	C08DAR12SP	C08DCR12SP	C08P4AR12SP
C08DER12SLP	C08PAR12SLP	C08PBR12SLP	C08PCR12SLP	C08PDR12SLP	C08DAR12SLP	C08DCR12SLP	C08P4AR12SLP
C08DER13S	C08PAR13S	C08PBR13S	C08PCR13S	C08PDR13S	C08DAR13S	C08DCR13S	C08P4AR13S
C08DER13SP	C08PAR13SP	C08PBR13SP	C08PCR13SP	C08PDR13SP	C08DAR13SP	C08DCR13SP	C08P4AR13SP
C08DER13SLP	C08PAR13SLP	C08PBR13SLP	C08PCR13SLP	C08PDR13SLP	C08DAR13SLP	C08DCR13SLP	C08P4AR13SLP
C08DER14S	C08PAR14S	C08PBR14S	C08PCR14S	C08PDR14S	C08DAR14S	C08DCR14S	C08P4AR14S
C08DER14SP	C08PAR14SP	C08PBR14SP	C08PCR14SP	C08PDR14SP	C08DAR14SP	C08DCR14SP	C08P4AR14SP
C08DER14SLP	C08PAR14SLP	C08PBR14SLP	C08PCR14SLP	C08PDR14SLP	C08DAR14SLP	C08DCR14SLP	C08P4AR14SLP
C08DER15S	C08PAR15S	C08PBR15S	C08PCR15S	C08PDR15S	C08DAR15S	C08DCR15S	C08P4AR15S
C08DER15SP	C08PAR15SP	C08PBR15SP	C08PCR15SP	C08PDR15SP	C08DAR15SP	C08DCR15SP	C08P4AR15SP
C08DER15SLP	C08PAR15SLP	C08PBR15SLP	C08PCR15SLP	C08PDR15SLP	C08DAR15SLP	C08DCR15SLP	C08P4AR15SLP
C08DER31S	C08PAR31S	C08PBR31S	C08PCR31S	C08PDR31S	C08DAR31S	C08DCR31S	C08P4AR31S
C08DER31SP	C08PAR31SP	C08PBR31SP	C08PCR31SP	C08PDR31SP	C08DAR31SP	C08DCR31SP	C08P4AR31SP
C08DER31SLP	C08PAR31SLP	C08PBR31SLP	C08PCR31SLP	C08PDR31SLP	C08DAR31SLP	C08DCR31SLP	C08P4AR31SLP
C08DER32S	C08PAR32S	C08PBR32S	C08PCR32S	C08PDR32S	C08DAR32S	C08DCR32S	C08P4AR32S
C08DER32SP	C08PAR32SP	C08PBR32SP	C08PCR32SP	C08PDR32SP	C08DAR32SP	C08DCR32SP	C08P4AR32SP
C08DER32SLP	C08PAR32SLP	C08PBR32SLP	C08PCR32SLP	C08PDR32SLP	C08DAR32SLP	C08DCR32SLP	C08P4AR32SLP
C08DER33S	C08PAR33S	C08PBR33S	C08PCR33S	C08PDR33S	C08DAR33S	C08DCR33S	C08P4AR33S
C08DER33SP	C08PAR33SP	C08PBR33SP	C08PCR33SP	C08PDR33SP	C08DAR33SP	C08DCR33SP	C08P4AR33SP
C08DER33SLP	C08PAR33SLP	C08PBR33SLP	C08PCR33SLP	C08PDR33SLP	C08DAR33SLP	C08DCR33SLP	C08P4AR33SLP
C08DER34S	C08PAR34S	C08PBR34S	C08PCR34S	C08PDR34S	C08DAR34S	C08DCR34S	C08P4AR34S
C08DER34SP	C08PAR34SP	C08PBR34SP	C08PCR34SP	C08PDR34SP	C08DAR34SP	C08DCR34SP	C08P4AR34SP
C08DER34SLP	C08PAR34SLP	C08PBR34SLP	C08PCR34SLP	C08PDR34SLP	C08DAR34SLP	C08DCR34SLP	C08P4AR34SLP
C08DER35S	C08PAR35S	C08PBR35S	C08PCR35S	C08PDR35S	C08DAR35S	C08DCR35S	C08P4AR35S
C08DER35SP	C08PAR35SP	C08PBR35SP	C08PCR35SP	C08PDR35SP	C08DAR35SP	C08DCR35SP	C08P4AR35SP
C08DER35SLP	C08PAR35SLP	C08PBR35SLP	C08PCR35SLP	C08PDR35SLP	C08DAR35SLP	C08DCR35SLP	C08P4AR35SLP
C08DER51S	C08PAR51S	C08PBR51S	C08PCR51S	C08PDR51S	C08DAR51S	C08DCR51S	C08P4AR51S
C08DER51SP	C08PAR51SP	C08PBR51SP	C08PCR51SP	C08PDR51SP	C08DAR51SP	C08DCR51SP	C08P4AR51SP
C08DER51SLP	C08PAR51SLP	C08PBR51SLP	C08PCR51SLP	C08PDR51SLP	C08DAR51SLP	C08DCR51SLP	C08P4AR51SLP

C08DER52S	C08PAR52S	C08PBR52S	C08PCR52S	C08PDR52S	C08DAR52S	C08DCR52S	C08PAR52SP
C08DER52SP	C08PAR52SP	C08PBR52SP	C08PCR52SP	C08PDR52SP	C08DAR52SP	C08DCR52SP	C08PAR52SP
C08DER52SLP	C08PAR52SLP	C08PBR52SLP	C08PCR52SLP	C08PDR52SLP	C08DAR52SLP	C08DCR52SLP	C08PAR52SLP
C08DER53S	C08PAR53S	C08PBR53S	C08PCR53S	C08PDR53S	C08DAR53S	C08DCR53S	C08PAR53S
C08DER53SP	C08PAR53SP	C08PBR53SP	C08PCR53SP	C08PDR53SP	C08DAR53SP	C08DCR53SP	C08PAR53SP
C08DER53SLP	C08PAR53SLP	C08PBR53SLP	C08PCR53SLP	C08PDR53SLP	C08DAR53SLP	C08DCR53SLP	C08PAR53SLP
C08DER54S	C08PAR54S	C08PBR54S	C08PCR54S	C08PDR54S	C08DAR54S	C08DCR54S	C08PAR54S
C08DER54SP	C08PAR54SP	C08PBR54SP	C08PCR54SP	C08PDR54SP	C08DAR54SP	C08DCR54SP	C08PAR54SP
C08DER54SLP	C08PAR54SLP	C08PBR54SLP	C08PCR54SLP	C08PDR54SLP	C08DAR54SLP	C08DCR54SLP	C08PAR54SLP
C08DER55S	C08PAR55S	C08PBR55S	C08PCR55S	C08PDR55S	C08DAR55S	C08DCR55S	C08PAR55S
C08DER55SP	C08PAR55SP	C08PBR55SP	C08PCR55SP	C08PDR55SP	C08DAR55SP	C08DCR55SP	C08PAR55SP
C08DER55SLP	C08PAR55SLP	C08PBR55SLP	C08PCR55SLP	C08PDR55SLP	C08DAR55SLP	C08DCR55SLP	C08PAR55SLP
C08DER10S	C08PAR10S	C08PBR10S	C08PCR10S	C08PDR10S	C08DAR10S	C08DCR10S	C08PAR10S
C08DER10SP	C08PAR10SP	C08PBR10SP	C08PCR10SP	C08PDR10SP	C08DAR10SP	C08DCR10SP	C08PAR10SP
C08DER10SLP	C08PAR10SLP	C08PBR10SLP	C08PCR10SLP	C08PDR10SLP	C08DAR10SLP	C08DCR10SLP	C08PAR10SLP
C08DER30S	C08PAR30S	C08PBR30S	C08PCR30S	C08PDR30S	C08DAR30S	C08DCR30S	C08PAR30S
C08DER30SP	C08PAR30SP	C08PBR30SP	C08PCR30SP	C08PDR30SP	C08DAR30SP	C08DCR30SP	C08PAR30SP
C08DER30SLP	C08PAR30SLP	C08PBR30SLP	C08PCR30SLP	C08PDR30SLP	C08DAR30SLP	C08DCR30SLP	C08PAR30SLP
C08DER50S	C08PAR50S	C08PBR50S	C08PCR50S	C08PDR50S	C08DAR50S	C08DCR50S	C08PAR50S
C08DER50SP	C08PAR50SP	C08PBR50SP	C08PCR50SP	C08PDR50SP	C08DAR50SP	C08DCR50SP	C08PAR50SP
C08DER50SLP	C08PAR50SLP	C08PBR50SLP	C08PCR50SLP	C08PDR50SLP	C08DAR50SLP	C08DCR50SLP	C08PAR50SLP
C08P4BR11S	C08P4CR11S	C08P4DR11S	C08P2AR11S	C08P2BR11S	C08P2CR11S	C08P2DR11S	C16MER11SLP
C08P4BR11SP	C08P4CR11SP	C08P4DR11SP	C08P2AR11SP	C08P2BR11SP	C08P2CR11SP	C08P2DR11SP	C16MER12S
C08P4BR11SLP	C08P4CR11SLP	C08P4DR11SLP	C08P2AR11SLP	C08P2BR11SLP	C08P2CR11SLP	C08P2DR11SLP	C16MER12SP
C08P4BR12S	C08P4CR12S	C08P4DR12S	C08P2AR12S	C08P2BR12S	C08P2CR12S	C08P2DR12S	C16MER12SLP
C08P4BR12SP	C08P4CR12SP	C08P4DR12SP	C08P2AR12SP	C08P2BR12SP	C08P2CR12SP	C08P2DR12SP	C16MER13S
C08P4BR12SLP	C08P4CR12SLP	C08P4DR12SLP	C08P2AR12SLP	C08P2BR12SLP	C08P2CR12SLP	C08P2DR12SLP	C16MER13SP
C08P4BR13S	C08P4CR13S	C08P4DR13S	C08P2AR13S	C08P2BR13S	C08P2CR13S	C08P2DR13S	C16MER13SLP
C08P4BR13SP	C08P4CR13SP	C08P4DR13SP	C08P2AR13SP	C08P2BR13SP	C08P2CR13SP	C08P2DR13SP	C16MER14S
C08P4BR13SLP	C08P4CR13SLP	C08P4DR13SLP	C08P2AR13SLP	C08P2BR13SLP	C08P2CR13SLP	C08P2DR13SLP	C16MER14SP
C08P4BR14S	C08P4CR14S	C08P4DR14S	C08P2AR14S	C08P2BR14S	C08P2CR14S	C08P2DR14S	C16MER14SLP
C08P4BR14SP	C08P4CR14SP	C08P4DR14SP	C08P2AR14SP	C08P2BR14SP	C08P2CR14SP	C08P2DR14SP	C16MER15S
C08P4BR14SLP	C08P4CR14SLP	C08P4DR14SLP	C08P2AR14SLP	C08P2BR14SLP	C08P2CR14SLP	C08P2DR14SLP	C16MER15SP
C08P4BR15S	C08P4CR15S	C08P4DR15S	C08P2AR15S	C08P2BR15S	C08P2CR15S	C08P2DR15S	C16MER15SLP
C08P4BR15SP	C08P4CR15SP	C08P4DR15SP	C08P2AR15SP	C08P2BR15SP	C08P2CR15SP	C08P2DR15SP	C16MER31S
C08P4BR15SLP	C08P4CR15SLP	C08P4DR15SLP	C08P2AR15SLP	C08P2BR15SLP	C08P2CR15SLP	C08P2DR15SLP	C16MER31SP
C08P4BR31S	C08P4CR31S	C08P4DR31S	C08P2AR31S	C08P2BR31S	C08P2CR31S	C08P2DR31S	C16MER31SLP
C08P4BR31SP	C08P4CR31SP	C08P4DR31SP	C08P2AR31SP	C08P2BR31SP	C08P2CR31SP	C08P2DR31SP	C16MER32S
C08P4BR31SLP	C08P4CR31SLP	C08P4DR31SLP	C08P2AR31SLP	C08P2BR31SLP	C08P2CR31SLP	C08P2DR31SLP	C16MER32SP
C08P4BR32S	C08P4CR32S	C08P4DR32S	C08P2AR32S	C08P2BR32S			

C12DAR15SP	C12DBR15SP	C12DCR15SP	C12DDR15SP	C12DER15SP	C16MCR15SP	C16MDR15SP	C16MBR15SP
C12DAR15SLP	C12DBR15SLP	C12DCR15SLP	C12DDR15SLP	C12DER15SLP	C16MCR15SLP	C16MDR15SLP	C16MBR15SLP
C12DAR31S	C12DBR31S	C12DCR31S	C12DDR31S	C12DER31S	C16MCR31S	C16MDR31S	C16MBR31S
C12DAR31SP	C12DBR31SP	C12DCR31SP	C12DDR31SP	C12DER31SP	C16MCR31SP	C16MDR31SP	C16MBR31SP
C12DAR31SLP	C12DBR31SLP	C12DCR31SLP	C12DDR31SLP	C12DER31SLP	C16MCR31SLP	C16MDR31SLP	C16MBR31SLP
C12DAR32S	C12DBR32S	C12DCR32S	C12DDR32S	C12DER32S	C16MCR32S	C16MDR32S	C16MBR32S
C12DAR32SP	C12DBR32SP	C12DCR32SP	C12DDR32SP	C12DER32SP	C16MCR32SP	C16MDR32SP	C16MBR32SP
C12DAR32SLP	C12DBR32SLP	C12DCR32SLP	C12DDR32SLP	C12DER32SLP	C16MCR32SLP	C16MDR32SLP	C16MBR32SLP
C12DAR33S	C12DBR33S	C12DCR33S	C12DDR33S	C12DER33S	C16MCR33S	C16MDR33S	C16MBR33S
C12DAR33SP	C12DBR33SP	C12DCR33SP	C12DDR33SP	C12DER33SP	C16MCR33SP	C16MDR33SP	C16MBR33SP
C12DAR33SLP	C12DBR33SLP	C12DCR33SLP	C12DDR33SLP	C12DER33SLP	C16MCR33SLP	C16MDR33SLP	C16MBR33SLP
C12DAR34S	C12DBR34S	C12DCR34S	C12DDR34S	C12DER34S	C16MCR34S	C16MDR34S	C16MBR34S
C12DAR34SP	C12DBR34SP	C12DCR34SP	C12DDR34SP	C12DER34SP	C16MCR34SP	C16MDR34SP	C16MBR34SP
C12DAR34SLP	C12DBR34SLP	C12DCR34SLP	C12DDR34SLP	C12DER34SLP	C16MCR34SLP	C16MDR34SLP	C16MBR34SLP
C12DAR35S	C12DBR35S	C12DCR35S	C12DDR35S	C12DER35S	C16MCR35S	C16MDR35S	C16MBR35S
C12DAR35SP	C12DBR35SP	C12DCR35SP	C12DDR35SP	C12DER35SP	C16MCR35SP	C16MDR35SP	C16MBR35SP
C12DAR35SLP	C12DBR35SLP	C12DCR35SLP	C12DDR35SLP	C12DER35SLP	C16MCR35SLP	C16MDR35SLP	C16MBR35SLP
C12DAR51S	C12DBR51S	C12DCR51S	C12DDR51S	C12DER51S	C16MCR51S	C16MDR51S	C16MBR51S
C12DAR51SP	C12DBR51SP	C12DCR51SP	C12DDR51SP	C12DER51SP	C16MCR51SP	C16MDR51SP	C16MBR51SP
C12DAR51SLP	C12DBR51SLP	C12DCR51SLP	C12DDR51SLP	C12DER51SLP	C16MCR51SLP	C16MDR51SLP	C16MBR51SLP
C12DAR52S	C12DBR52S	C12DCR52S	C12DDR52S	C12DER52S	C16MCR52S	C16MDR52S	C16MBR52S
C12DAR52SP	C12DBR52SP	C12DCR52SP	C12DDR52SP	C12DER52SP	C16MCR52SP	C16MDR52SP	C16MBR52SP
C12DAR52SLP	C12DBR52SLP	C12DCR52SLP	C12DDR52SLP	C12DER52SLP	C16MCR52SLP	C16MDR52SLP	C16MBR52SLP
C12DAR53S	C12DBR53S	C12DCR53S	C12DDR53S	C12DER53S	C16MCR53S	C16MDR53S	C16MBR53S
C12DAR53SP	C12DBR53SP	C12DCR53SP	C12DDR53SP	C12DER53SP	C16MCR53SP	C16MDR53SP	C16MBR53SP
C12DAR53SLP	C12DBR53SLP	C12DCR53SLP	C12DDR53SLP	C12DER53SLP	C16MCR53SLP	C16MDR53SLP	C16MBR53SLP
C12DAR54S	C12DBR54S	C12DCR54S	C12DDR54S	C12DER54S	C16MCR54S	C16MDR54S	C16MBR54S
C12DAR54SP	C12DBR54SP	C12DCR54SP	C12DDR54SP	C12DER54SP	C16MCR54SP	C16MDR54SP	C16MBR54SP
C12DAR54SLP	C12DBR54SLP	C12DCR54SLP	C12DDR54SLP	C12DER54SLP	C16MCR54SLP	C16MDR54SLP	C16MBR54SLP
C12DAR55S	C12DBR55S	C12DCR55S	C12DDR55S	C12DER55S	C16MCR55S	C16MDR55S	C16MBR55S
C12DAR55SP	C12DBR55SP	C12DCR55SP	C12DDR55SP	C12DER55SP	C16MCR55SP	C16MDR55SP	C16MBR55SP
C12DAR55SLP	C12DBR55SLP	C12DCR55SLP	C12DDR55SLP	C12DER55SLP	C16MCR55SLP	C16MDR55SLP	C16MBR55SLP
C12DAR10S	C12DBR10S	C12DCR10S	C12DDR10S	C12DER10S	C16MCR10S	C16MDR10S	C16MBR10S
C12DAR10SP	C12DBR10SP	C12DCR10SP	C12DDR10SP	C12DER10SP	C16MCR10SP	C16MDR10SP	C16MBR10SP
C12DAR10SLP	C12DBR10SLP	C12DCR10SLP	C12DDR10SLP	C12DER10SLP	C16MCR10SLP	C16MDR10SLP	C16MBR10SLP
C12DAR30S	C12DBR30S	C12DCR30S	C12DDR30S	C12DER30S	C16MCR30S	C16MDR30S	C16MBR30S
C12DAR30SP	C12DBR30SP	C12DCR30SP	C12DDR30SP	C12DER30SP	C16MCR30SP	C16MDR30SP	C16MBR30SP
C12DAR30SLP	C12DBR30SLP	C12DCR30SLP	C12DDR30SLP	C12DER30SLP	C16MCR30SLP	C16MDR30SLP	C16MBR30SLP
C12DAR50S	C12DBR50S	C12DCR50S	C12DDR50S	C12DER50S	C16MCR50S	C16MDR50S	C16MBR50S
C12DAR50SP	C12DBR50SP	C12DCR50SP	C12DDR50SP	C12DER50SP	C16MCR50SP	C16MDR50SP	C16MBR50SP
C12DAR50SLP	C12DBR50SLP	C12DCR50SLP	C12DDR50SLP	C12DER50SLP	C16MCR50SLP	C16MDR50SLP	C16MBR50SLP
C16YAR11S	C16YBR11S	C16YCR11S	C16YDR11S	C16YER11S	C16MAR11S	C16YER54SLP	C16MAR54SLP
C16YAR11SP	C16YBR11SP	C16YCR11SP	C16YDR11SP	C16YER11SP	C16MAR11SP	C16YER55S	C16MAR55S
C16YAR11SLP	C16YBR11SLP	C16YCR11SLP	C16YDR11SLP	C16YER11SLP	C16MAR11SLP	C16YER55SP	C16MAR55SP
C16YAR12S	C16YBR12S	C16YCR12S	C16YDR12S	C16YER12S	C16MAR12S	C16YER55SLP	C16MAR55SLP
C16YAR12SP	C16YBR12SP	C16YCR12SP	C16YDR12SP	C16YER12SP	C16MAR12SP	C16YER10S	C16MAR10S
C16YAR12SLP	C16YBR12SLP	C16YCR12SLP	C16YDR12SLP	C16YER12SLP	C16MAR12SLP	C16YER10SP	C16MAR10SP
C16YAR13S	C16YBR13S	C16YCR13S	C16YDR13S	C16YER13S	C16MAR13S	C16YER10SLP	C16MAR10SLP
C16YAR13SP	C16YBR13SP	C16YCR13SP	C16YDR13SP	C16YER13SP	C16MAR13SP	C16YER30S	C16MAR30S
C16YAR13SLP	C16YBR13SLP	C16YCR13SLP	C16YDR13SLP	C16YER13SLP	C16MAR13SLP	C16YER30SP	C16MAR30SP
C16YAR14S	C16YBR14S	C16YCR14S	C16YDR14S	C16YER14S	C16MAR14S	C16YER30SLP	C16MAR30SLP
C16YAR14SP	C16YBR14SP	C16YCR14SP	C16YDR14SLP	C16YER14SLP	C16MAR14SLP	C16YER50S	C16MAR50S
C16YAR14SLP	C16YBR14SLP	C16YCR14SLP	C16YDR14SLP	C16YER14SLP	C16MAR14SLP	C16YER50SP	C16MAR50SP
C16YAR15S	C16YBR15S	C16YCR15S	C16YDR15S	C16YER15S	C16MAR15S	C16YER50SLP	C16MAR50SLP
C16YAR15SP	C16YBR15SP	C16YCR15SP	C16YDR15SP	C16YER15SP	C16MAR15SP	C16YCR54SLP	C16YDR54SLP
C16YAR15SLP	C16YBR15SLP	C16YCR15SLP	C16YDR15SLP	C16YER15SLP	C16MAR15SLP	C16YCR55S	C16YDR55S
C16YAR31S	C16YBR31S	C16YCR31S	C16YDR31S	C16YER31S	C16MAR31S	C16YCR55SP	C16YDR55SP
C16YAR31SP	C16YBR31SP	C16YCR31SP	C16YDR31SP	C16YER31SP	C16MAR31SP	C16YCR55SLP	C16YDR55SLP
C16YAR31SLP	C16YBR31SLP	C16YCR31SLP	C16YDR31SLP	C16YER31SLP	C16MAR31SLP	C16YCR10S	C16YDR10S
C16YAR32S	C16YBR32S	C16YCR32S	C16YDR32S	C16YER32S	C16MAR32S	C16YCR10SP	C16YDR10SP
C16YAR32SP	C16YBR32SP	C16YCR32SP	C16YDR32SP	C16YER32SP	C16MAR32SP	C16YCR10SLP	C16YDR10SLP
C16YAR32SLP	C16YBR32SLP	C16YCR32SLP	C16YDR32SLP	C16YER32SLP	C16MAR32SLP	C16YCR30S	C16YDR30S
C16YAR33S	C16YBR33S	C16YCR33S	C16YDR33S	C16YER33S	C16MAR33S	C16YCR30SP	C16YDR30SP
C16YAR33SP	C16YBR33SP	C16YCR33SP	C16YDR33SP	C16YER33SP	C16MAR33SP	C16YCR30SLP	C16YDR30SLP
C16YAR33SLP	C16YBR33SLP	C16YCR33SLP	C16YDR33SLP	C16YER33SLP	C16MAR33SLP	C16YCR50S	C16YDR50S
C16YAR34S	C16YBR34S	C16YCR34S	C16YDR34S	C16YER34S	C16MAR34S	C16YCR50SP	C16YDR50SP
C16YAR34SP	C16YBR34SP	C16YCR34SP	C16YDR34SP	C16YER34SP	C16MAR34SP	C16YCR50SLP	C16YDR50SLP
C16YAR34SLP	C16YBR34SLP	C16YCR34SLP	C16YDR34SLP	C16YER34SLP	C16MAR34SLP	C16YAR54SLP	C16YBR54SLP
C16YAR35S	C16YBR35S	C16YCR35S	C16YDR35S	C16YER35S	C16MAR35S	C16YAR55S	C16YBR55S
C16YAR35SP	C16YBR35SP	C16YCR35SP	C16YDR35SP	C16YER35SP	C16MAR35SP	C16YAR55SP	C16YBR55SP
C16YAR35SLP	C16YBR35SLP	C16YCR35SLP	C16YDR35SLP	C16YER35SLP	C16MAR35SLP	C16YAR55SLP	C16YBR55SLP
C16YAR51S	C16YBR51S	C16YCR51S	C16YDR51S	C16YER51S	C16MAR51S	C16YAR10S	C16YBR10S
C16YAR51SP	C16YBR51SP	C16YCR51SP	C16YDR51SP	C16YER51SP	C16MAR51SP	C16YAR10SP	C16YBR10SP
C16YAR51SLP	C16YBR51SLP	C16YCR51SLP	C16YDR51SLP	C16YER51SLP	C16MAR51SLP	C16YAR10SLP	C16YBR10SLP
C16YAR52S	C16YBR52S	C16YCR52S	C16YDR52S	C16YER52S	C16MAR52S	C16YAR30S	C16YBR30S
C16YAR52SP	C16YBR52SP	C16YCR52SP	C16YDR52SP	C16YER52SP	C16MAR52SP	C16YAR30SP	C16YBR30SP
C16YAR52SLP	C16YBR52SLP	C16YCR52SLP	C16YDR52SLP	C16YER52SLP	C16MAR52SLP	C16YAR30SLP	C16YBR30SLP
C16YAR53S	C16YBR53S	C16YCR53S	C16YDR53S	C16YER53S	C16MAR53S	C16YAR50S	C16YBR50S
C16YAR53SP	C16YBR53SP	C16YCR53SP	C16YDR53SP	C16YER53SP	C16MAR53SP	C16YAR50SP	C16YBR50SP
C16YAR53SLP	C16YBR53SLP	C16YCR53SLP	C16YDR53SLP	C16YER53SLP	C16MAR53SLP	C16YAR50SLP	C16YBR50SLP
C16YAR54S	C16YBR54S	C16YCR54S	C16YDR54S	C16YER54S	C16MAR54S	C16YER54SP	C16MAR54SP
C16YAR54SP	C16YBR54SP	C16YCR54SP	C16YDR54SP	C16YER54SP	C16MAR54SP	C16YER54SP	C16MAR54SP