

Integrációs és ellenőrzési technikák
VIMIAC04, 2019. tavasz

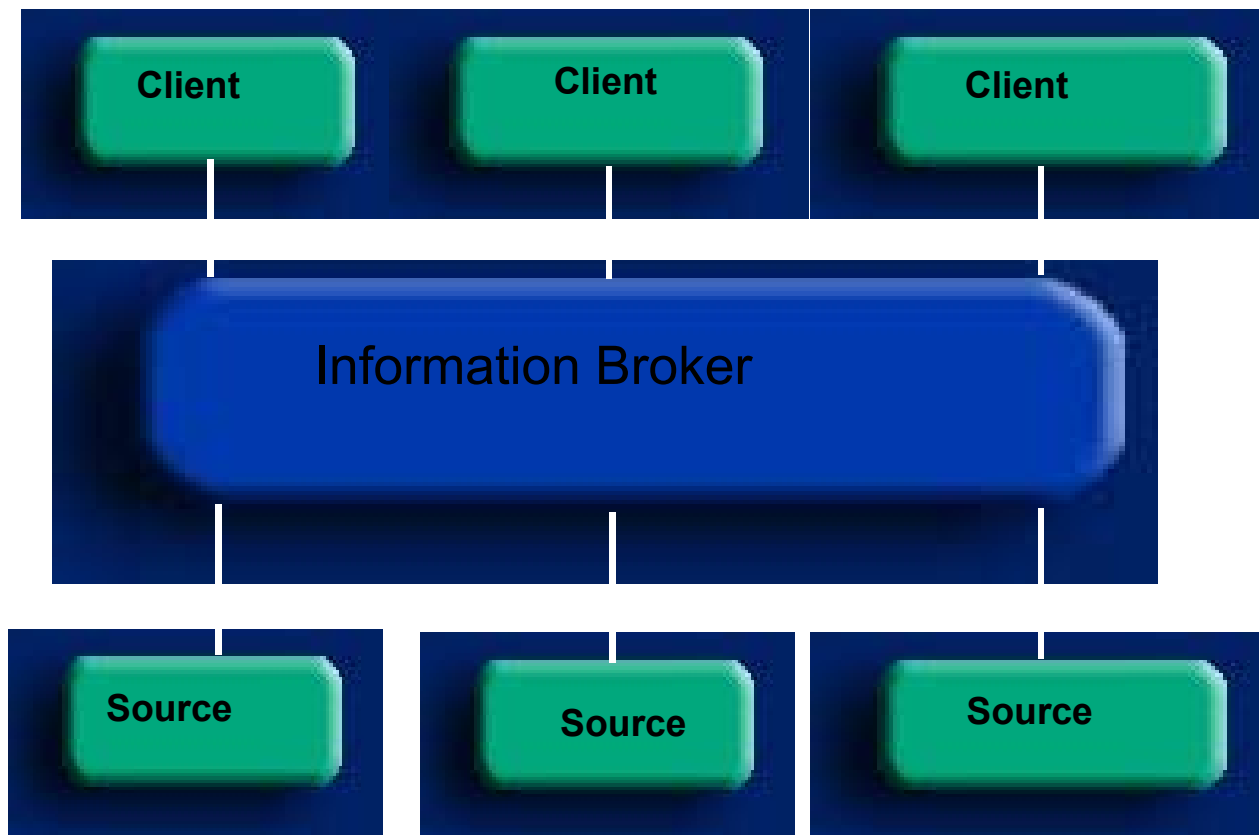
Információ integráció

Esettanulmány – Infomaster rendszer

6. Előadás

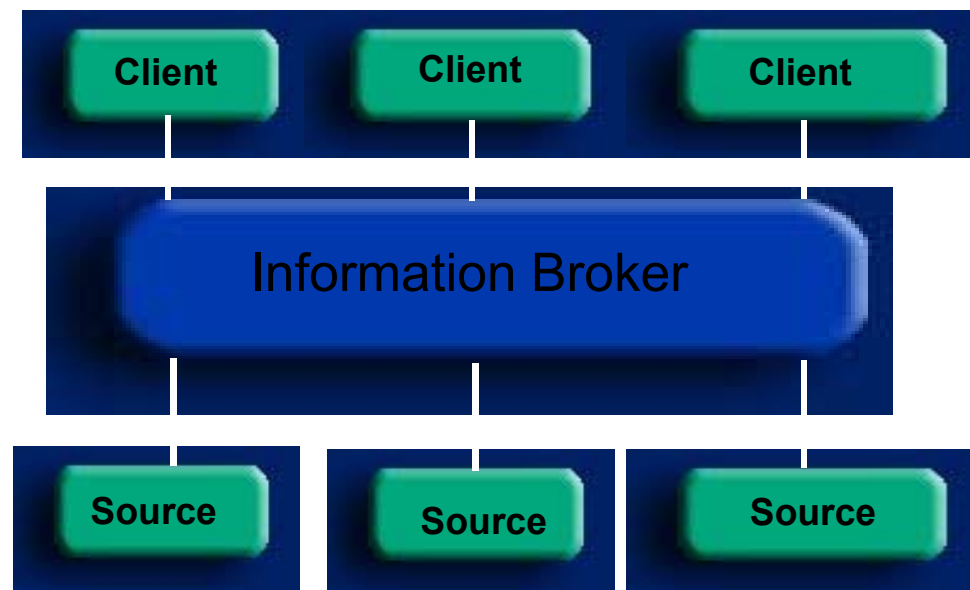
Méréstechnika és Információs Rendszerek Tanszék
<https://www.mit.bme.hu/oktatas/targyak/vimiaco4>

Információs bróker



Automatikus információ integráció

Integrált elérés széttagolt, heterogén, elosztott adatforrásokhoz,
abból a célból, hogy biztosítsunk egységes, homogén adatkezelés nézetét.



Adatforrások

Vendor
Catalogs

Retailer
Product
Data

Consumer
Reports
Ratings

Inventory
Data

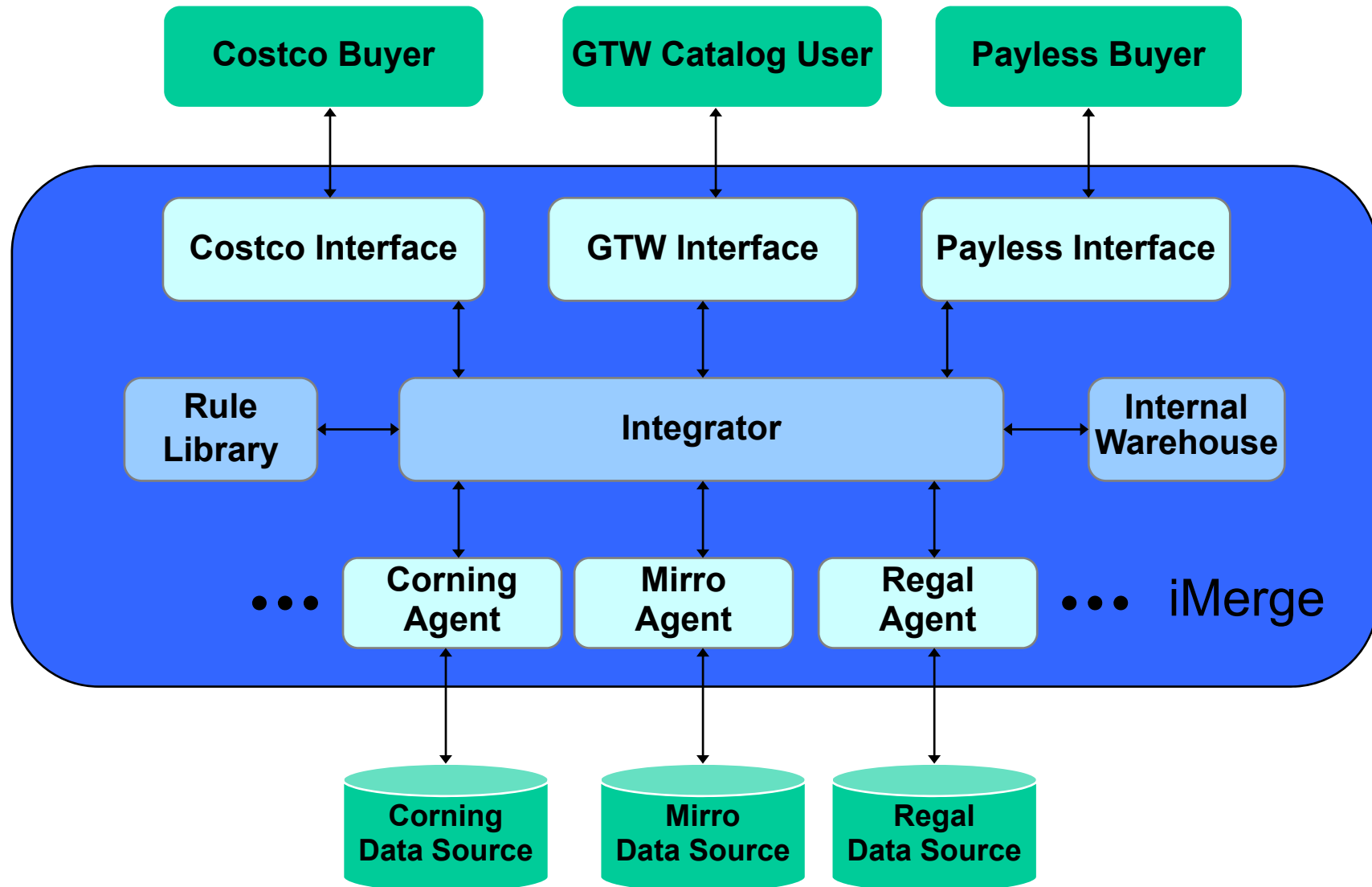
Price
Sheets

Currency
Conversion
Tables

Company
Data

Demographic
Data

Mintapélda architektúra





Location: <http://0.0.0.0:3000/>

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 - ▶ [30 - Structures, Building, Construction and Manufacturing Components and Supplies](#)
 - ▶ [31 - Manufacturing Components and Supplies](#)
 - ▶ [32 - Electronic Components and Supplies](#)
 - ▶ [43 - Communications, Computer Equipment, Peripherals, Components and Supplies](#)
 - ▶ [44 - Office Equipment, Accessories and Supplies](#)
 - ▶ [45 - Printing, Photographic and Audio/Visual Equipment and Supplies](#)
 - ▼ [52 - Furniture, Furnishings, Domestic Appliances and Consumer Electronic Products](#)
 - ▶ [5215 - Domestic kitchenware](#)
 - ▶ [521518 - Domestic cookware](#)
 - ▶ [53 - Apparel, Luggage, and Personal Care Products](#)
 - ▶ [55 - Published Products](#)
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Location: http://0.0.0.0:3000/browser/SEEK?Class=PRODUCT

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▼ [Product](#)

- ▶ [Product.521515](#)
- ▶ [Product.521516](#)
- ▶ [Product.521517](#)
- ▶ [Product.521518](#)
- ▶ [Product.521519](#)
- ▶ [Product.521520](#)
- ▶ [Product.521521](#)

- ▶ [Service](#)
- ▶ [Organization](#)

Find every [Product.521518](#) that satisfies the following criteria.

Type

Material

Interior

Exterior

Color

Capacity

Diameter

MSRP

Manufacturer

1 - 20 of 260 items

- [3500115-8in-Skillet](#)
- [3500116-10in-Skillet](#)
- [3500117-15in-Skillet](#)
- [3500130-8in-Skillet](#)
- [3500131-10in-Skillet](#)
- [3500132-12in-Skillet](#)
- [3500508-4qt-Steamer-Insert](#)
- [3500684-Multi-Cooker-Set](#)
- [3500685-Multi-Cooker-Set](#)
- [3500783-8in-Skillet](#)
- [3500784-10in-Skillet](#)
- [3500785-12in-Skillet](#)
- [3500786-8in-Skillet](#)
- [3500787-10in-Skillet](#)
- [3500788-12in-Skillet](#)
- [3500793-12in-Chicken-Fryer](#)
- [3500795-12in-Chicken-Fryer](#)
- [3500805-8pc-Set](#)
- [3500806-8pc-Set](#)
- [3500830-11in-Griddle](#)





Location: http://0.0.0.0:3000/browser/SEEK?Class=PRODUCT

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[Coming](#) [Mirro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

Product

- ▶ [Product.521515](#)
- ▶ [Product.521516](#)
- ▶ [Product.521517](#)
- ▶ [Product.521518](#)
- ▶ [Product.521519](#)
- ▶ [Product.521520](#)
- ▶ [Product.521521](#)

- ▶ [Service](#)
- ▶ [Organization](#)

Find every [Product.521518](#) that satisfies the following criteria.

Type Skillet

Material

Interior

Exterior

Color

Capacity

Diameter

MSRP

Manufacturer

1 - 20 of 60 items

- [3500115-8in-Skillet](#)
- [3500116-10in-Skillet](#)
- [3500117-15in-Skillet](#)
- [3500130-8in-Skillet](#)
- [3500131-10in-Skillet](#)
- [3500132-12in-Skillet](#)
- [3500783-8in-Skillet](#)
- [3500784-10in-Skillet](#)
- [3500785-12in-Skillet](#)
- [3500786-8in-Skillet](#)
- [3500787-10in-Skillet](#)
- [3500788-12in-Skillet](#)
- [3500793-12in-Chicken-Fryer](#)
- [3500795-12in-Chicken-Fryer](#)
- [3500879-12in-Sauteuse](#)
- [3500882-12in-Sauteuse](#)
- [3500948-12in-Skillet](#)
- [3500949-10in-Skillet](#)
- [3500950-8in-Skillet](#)
- [3500982-10in-Nonstick-Skillet](#)





Location: http://0.0.0.0:3000/browser/SEEK?Class=PRODUCT

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[Coming](#) [Mirro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

Product

- ▶ [Product.521515](#)
- ▶ [Product.521516](#)
- ▶ [Product.521517](#)
- ▶ [Product.521518](#)
- ▶ [Product.521519](#)
- ▶ [Product.521520](#)
- ▶ [Product.521521](#)

- ▶ [Service](#)
- ▶ [Organization](#)

Find every [Product.521518](#) that satisfies the following criteria.

Type Skillet

Material

Interior Teflon

Exterior

Color

Capacity

Diameter

MSRP

Manufacturer

1 - 20 of 49 items

- [3500115-8in-Skillet](#)
- [3500116-10in-Skillet](#)
- [3500117-15in-Skillet](#)
- [3500130-8in-Skillet](#)
- [3500131-10in-Skillet](#)
- [3500132-12in-Skillet](#)
- [3500783-8in-Skillet](#)
- [3500784-10in-Skillet](#)
- [3500785-12in-Skillet](#)
- [3500786-8in-Skillet](#)
- [3500787-10in-Skillet](#)
- [3500788-12in-Skillet](#)
- [3500948-12in-Skillet](#)
- [3500949-10in-Skillet](#)
- [3500950-8in-Skillet](#)
- [3500982-10in-Nonstick-Skillet](#)
- [3500983-8in-Nonstick-Skillet](#)
- [3500985-12in-Nonstick-Skillet](#)
- [Mirro-27017-Saute](#)
- [Mirro-27018-Saute](#)





Location: http://0.0.0.0:3000/browser/SEEK?Class=PRODUCT

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[Coming](#) [Mirro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

▼ [Product](#)

- ▶ [Product.521515](#)
- ▶ [Product.521516](#)
- ▶ [Product.521517](#)
- ▶ [Product.521518](#)
- ▶ [Product.521519](#)
- ▶ [Product.521520](#)
- ▶ [Product.521521](#)

- ▶ [Service](#)
- ▶ [Organization](#)

Find every [Product.521518](#) that satisfies the following criteria.

Type Skillet

Material

Interior Teflon

Exterior

Color

Capacity

Diameter 15

MSRP

Manufacturer

5 items

- [3500117-15in-Skillet](#)
- [Miro-27069-Saute](#)
- [Miro-27199-Grillpan](#)
- [Miro-92732-Saute](#)
- [J5817-15-In-Fry-Pan](#)





Location: <http://0.0.0.0:3000/browser/ENUMERATE?>

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[Corning](#) [Miro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

Product.521518	Type	Material	Interior	Exterior	Color	Capacity	Diameter	MSRP	Manufacturer	UPC	Image
3500117-15in-Skillet	Skillet	Aluminum	Teflon	Aluminum	Silver		15	33	Corning_Inc	050035001176	
Miro-27069-Saute	Skillet	Aluminum	Teflon	Porcelain	Black		15	49	Miro_Inc	071108270695	
Miro-27199-Grillpan	Skillet	Aluminum	Teflon	Porcelain	Blue		15	48	Miro_Inc	071108271999	
Miro-92732-Saute	Skillet	Aluminum	Teflon	Porcelain	Black		15	44	Miro_Inc	071108927322	
J5817-15-In-Fry-Pan	Skillet		Teflon	Teflon	Grey	4	15	92	Regal_Inc	078008018563	

Display answers through



Location: <http://0.0.0.0:3000/browser/INSPECT?Object=ALUMINUM>

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[Browser](#) [Editor](#) [Integrator](#) [Mapper](#) [Ontologist](#)[Corning](#) [Mirro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

Aluminum is an object of type [Material](#).

Type [Metallic](#)

Application [Oven](#), [Stovetop](#)

Product [Mirro-27017-Saute](#), [Mirro-27018-Saute](#), [Mirro-27019-Saute](#), [Mirro-27032-Saute](#), [Mirro-27033-Saute](#), [Mirro-27034-Saute](#), [Mirro-27056-2-Qts-Stirable](#), [Mirro-27057-2-Qts-Stirable](#), [Mirro-27058-2-Qts-Stirable](#), [Mirro-27059-Griddle](#), [Mirro-27060-Griddle](#), [Mirro-27061-Griddle](#), [Mirro-27066-5.3-Qts-Jumbo-Fryer](#), [Mirro-27068-Saute](#), [Mirro-27069-Saute](#), [Mirro-27073-2-Qts-Saucepan](#), [Mirro-27074-2-Qts-Saucepan](#), [Mirro-27075-3-Qts-Saucepan](#), [Mirro-27076-3-Qts-Saucepan](#), [Mirro-27077-5-Qts-Dutchoven](#), [Mirro-27078-5-Qts-Dutchoven](#), [Mirro-27079-5.3-Qts-Jumbo-Fryer](#), [Mirro-27120-5.3-Qts-Jumbo-Cooker](#), [Mirro-27121-Saute](#), [Mirro-27122-Saute](#), [Mirro-27123-Saute](#), [Mirro-27124-Griddle](#), [Mirro-27127-Saute](#), [Mirro-27128-Saute](#), [Mirro-27154-Fry](#), [Mirro-27188-Fry](#), [Mirro-27199-Grillpan](#), [Mirro-27200-Grillpan](#), [Mirro-27221-Grillpan](#), [Mirro-47022-Set](#), [Mirro-47023-Set](#), [Mirro-47025-Set](#), [Mirro-47054-Set](#), [Mirro-47099-Set](#), [Mirro-47103-Set](#), [Mirro-47104-2-Qts-Saucepan](#), [Mirro-47105-3-Qts-Saucepan](#), [Mirro-47106-5-Qts-Dutchoven](#), [Mirro-47121-Set](#), [Mirro-47123-Set](#), [Mirro-47124-Set](#), [Mirro-47132-Set](#), [Mirro-47154-Set](#), [Mirro-47155-Set](#), [Mirro-47157-Set](#), [Mirro-47158-Set](#), [Mirro-92728-Saute](#), [Mirro-92730-Saute](#), [Mirro-92732-Saute](#), [3500115-8in-Skillet](#), [3500116-10in-Skillet](#), [3500117-15in-Skillet](#)

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Location: <http://0.0.0.0:3000/browser/INSPECT?Object=CORNING.INC>

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[Corning](#) [Miro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

Corning.Inc is an object of type [Company](#).

Name Corning Inc

Nationality [Usa](#)

Supplier

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Location: <http://0.0.0.0:3000/browser/INSPECT?Object=REGAL.INC>

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[Coming](#) [Mirro](#) [Regal](#) [Costco](#) [Payless](#) [Sears](#)

Regal.Inc is an object of type [Company](#).

Name Regal Ltd

Nationality [Uk](#)

Supplier

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Location: http://0.0.0.0:3000/browser/SEEK?Class=PRODUCT

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[Coming](#) [Mirro](#) [Regal](#) [Costeo](#) [Payless](#) [Sears](#)

Product

- ▶ [Product.521515](#)
- ▶ [Product.521516](#)
- ▶ [Product.521517](#)
- ▶ [Product.521518](#)
- ▶ [Product.521519](#)
- ▶ [Product.521520](#)
- ▶ [Product.521521](#)

- ▶ [Service](#)
- ▶ [Organization](#)

Find every [Product.521518](#) that satisfies the following criteria.

Type Skillet

Material

Interior Teflon

Exterior

Color

Capacity

Diameter 15

MSRP

Manufacturer a [Company](#) that satisfies the following criteria

Name

Nationality a [Country](#) that satisfies the following criteria

Capital

Continent North-America

Corporation

Supplier

Refresh

Display

4 items

- [3500117-15in-Skillet](#)
- [Miro-27069-Saute](#)
- [Miro-27199-Grillpan](#)
- [Miro-92732-Saute](#)



Netscape: Regal - Inspect J5817-15-In-Fry-Pan

Back Forward Reload Home Search Netscape Images Print Security

Location: http://0.0.0.0:3000/regal/INSPECT?Object=J5817-15-IN-FRY-PAN

Regal Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Regalware](#).

Regal.Type	Fry-Pan
Regal.Gauge	8-Ga
Regal.Interior	Arc-Sprayed
Regal.Exterior	Arc-Sprayed
Regal.Height	2
Regal.Diameter	15
Regal.Price	59.88
Regal.Upc	078008018563
Regal.Picture	

this
 Regalware.
 this
 Regalware.
 this
 Regalware.

Netscape: Payless - Inspect J5817-15-In-Fry-Pan


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Location: http://0.0.0.0:3000/payless/INSPECT?Object=J5817-15-IN-FRY-PAN

Payless Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Product.521518](#).

Type	Skillet
Material	
Interior	Teflon
Exterior	Teflon
Color	Grey
Capacity	4
Diameter	15
MSRP	92
Manufacturer	Regal.Inc
UPC	078008018563
Image	

Netscape: Regal - Change J5817-15-In-Fry-Pan

Back Forward Reload Home Search Netscape Images Print Security

Location: http://0.0.0.0:3000/regal/INSPECT?

Regal Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Regalware](#).

Regal.Type	Steamer-Inset	
Regal.Gauge	8-Ga	
Regal.Interior	Arc-Sprayed	
Regal.Exterior	Duracote	
Regal.Height	<input type="text" value="2"/>	inches
Regal.Diameter	<input type="text" value="15"/>	inches
Regal.Price	<input type="text" value="100"/>	pounds
Regal.Upc	<input type="text" value="078008018563"/>	
Regal.Picture	<input type="text" value=" 	

this
 Regalware.
 this
 Regalware.
 this
 Regalware.

Netscape: Payless - Inspect J5817-15-In-Fry-Pan


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Location: http://0.0.0.0:3000/payless/INSPECT?Object=J5817-15-IN-FRY-PAN

Payless Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Product.521518](#).

Type	Skillet
Material	
Interior	Teflon
Exterior	Teflon
Color	Grey
Capacity	4
Diameter	15
MSRP	92
Manufacturer	Regal.Inc
UPC	078008018563
Image	

Netscape: Regal - Inspect J5817-15-In-Fry-Pan

Back Forward Reload Home Search Netscape Images Print Security

Location: http://0.0.0.0:3000/regal/CHANGE?

Regal Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Regalware](#).

Regal.Type	Steamer-Inset
Regal.Gauge	8-Ga
Regal.Interior	Arc-Sprayed
Regal.Exterior	Duracote
Regal.Height	2
Regal.Diameter	15
Regal.Price	100
Regal.Upc	078008018563
Regal.Picture	

this
 Regalware.
 this
 Regalware.
 this
 Regalware.

Netscape: Payless - Inspect J5817-15-In-Fry-Pan


Back Forward Reload Home Search Netscape Images Print Security

Location: http://0.0.0.0:3000/payless/INSPECT?Object=J5817-15-IN-FRY-PAN

Payless Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Product.521518](#).

Type	Skillet
Material	
Interior	Teflon
Exterior	Teflon
Color	Grey
Capacity	4
Diameter	15
MSRP	92
Manufacturer	Regal.Inc
UPC	078008018563
Image	

Location: <http://0.0.0.0:3000/regal/CHANGE?>

Regal Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Regalware](#).

[Regal.Type](#) [Steamer-Inset](#)

[Regal.Gauge](#) [8-Ga](#)

[Regal.Interior](#) [Arc-Sprayed](#)

[Regal.Exterior](#) [Duracote](#)

[Regal.Height](#) [2](#)

[Regal.Diameter](#) [15](#)

[Regal.Price](#) [100](#)

[Regal.Upc](#) [078008018563](#)

[Regal.Picture](#)



this

Regalware.

this

Regalware.

this

Regalware.

Location: <http://0.0.0.0:3000/payless/INSPECT?Object=J5817-15-IN-FRY-PAN>

Payless Catalog

[Viewer](#) [Manager](#)

J5817-15-In-Fry-Pan is an object of type [Product.521518](#).

[Type](#) [Accessory](#)

[Material](#)

[Interior](#) [Teflon](#)

[Exterior](#) [Teflon](#)

[Color](#) [Black](#)

[Capacity](#) [4](#)

[Diameter](#) [15](#)

[MSRP](#) [153](#)

[Manufacturer](#) [Regal.Inc](#)

[UPC](#) [078008018563](#)

[Image](#)





Location: http://0.0.0.0:3000/payless/seek?Class=buyer.521518

Payless Catalog

[Viewer](#) [Manager](#)

Buyer.521518

Find every [Buyer.521518](#) that satisfies the following criteria.

Type +

- Double-Boiler
- Dutch-Oven
- Griddle
- Kettle
- Roaster
- Sauce-Pan
- Skillet

Material +

- Aluminum
- Ceramic
- Glass
- Iron
- Stainless

Interior +

- Aluminum
- Ceramic
- Enamel
- Glass
- Porcelain
- Stainless
- Teflon

Exterior +

- Aluminum
- Ceramic
- Enamel
- Glass
- Metal
- Porcelain
- Stainless

Manufacturer +

- Corning.Inc
- Mirro.Inc
- Regal.Inc

Refresh

Display

1 - 20 of 33 items

- [J0798-8-Pc-Set](#)
- [J07981-3-Qt-Sauce-Pan](#)
- [J07982-5-Qt-Dutch-Oven](#)
- [J07983-10-In-Stir-Fry](#)
- [J07984-10-In-Gourmet](#)
- [J07985-5-Qt-Steamer-Inset](#)
- [J5812-2-Qt-Sauce-Pan](#)
- [J5817-15-In-Fry-Pan](#)
- [J5818-8-Qt-Stock-Pot](#)
- [J8519-8-In-Gourmet](#)
- [J8520-10-In-Gourmet](#)
- [J8521-12-In-Gourmet](#)
- [J0950-8-Pc-Set](#)
- [J09501-1-Qt-Sauce-Pan](#)
- [J09502-2-Qt-Sauce-Pan](#)
- [J09503-5-Qt-Dutch-Oven](#)
- [J09504-8-In-Gourmet](#)
- [J09505-10-In-Fry-Pan](#)
- [J0888-8-Pc-Set](#)
- [J08881-1-Qt-Sauce-Pan](#)

More





Location: <http://0.0.0.0:3000/payless/seek?Class=buyer.521518>

Payless Catalog

[Viewer](#) [Manager](#)

Buyer.521518

Find every [Buyer.521518](#) that satisfies the following criteria.

Type +

- Double-Boiler
- Dutch-Oven
- Griddle
- Kettle
- Roaster
- Sauce-Pan
- Skillet

Material +

- Aluminum
- Ceramic
- Glass
- Iron
- Stainless

Interior +

- Aluminum
- Ceramic
- Enamel
- Glass
- Porcelain
- Stainless
- Teflon

Exterior +

- Aluminum
- Ceramic
- Enamel
- Glass
- Metal
- Porcelain
- Stainless

Manufacturer +

- Corning.Inc
- Mirro.Inc
- Regal.Inc

Refresh

Display

0 items





Location: <http://0.0.0.0:3000/payless/seek?Class=buyer.521518>

Payless Catalog

[Viewer](#) [Manager](#)

Buyer.521518

Find every [Buyer.521518](#) that satisfies the following criteria.

Type +

- Double-Boiler
- Dutch-Oven
- Griddle
- Kettle
- Roaster
- Sauce-Pan
- Skillet

Material +

- Aluminum
- Ceramic
- Glass
- Iron
- Stainless

Interior +

- Aluminum
- Ceramic
- Enamel
- Glass
- Porcelain
- Stainless
- Teflon

Exterior +

- Aluminum
- Ceramic
- Enamel
- Glass
- Metal
- Porcelain
- Stainless

Manufacturer +

- Corning.Inc
- Mirro.Inc
- Regal.Inc

Refresh

Display

0 items





Location: http://0.0.0.0:3000/payless/seek?Class=buyer.521518

Payless Catalog

[Viewer](#) [Manager](#)

Buyer.521518

Find every [Buyer.521518](#) that satisfies the following criteria.

- Type** +
- Double-Boiler
 - Dutch-Oven
 - Griddle
 - Kettle
 - Roaster
 - Sauce-Pan
 - Skillet

- Material** +
- Aluminum
 - Ceramic
 - Glass
 - Iron
 - Stainless

- Interior** +
- Aluminum
 - Ceramic
 - Enamel
 - Glass
 - Porcelain
 - Stainless
 - Teflon

- Exterior** +
- Aluminum
 - Ceramic
 - Enamel
 - Glass
 - Metal
 - Porcelain
 - Stainless

- Manufacturer** +
- Corning.Inc
 - Mirro.Inc
 - Regal.Inc

Refresh

Display

1 - 20 of 33 items

- [J0798-8-Pc-Set](#)
- [J07981-3-Qt-Sauce-Pan](#)
- [J07982-5-Qt-Dutch-Oven](#)
- [J07983-10-In-Stir-Fry](#)
- [J07984-10-In-Gourmet](#)
- [J07985-5-Qt-Steamer-Inset](#)
- [J5812-2-Qt-Sauce-Pan](#)
- [J5817-15-In-Fry-Pan](#)
- [J5818-8-Qt-Stock-Pot](#)
- [J8519-8-In-Gourmet](#)
- [J8520-10-In-Gourmet](#)
- [J8521-12-In-Gourmet](#)
- [J0950-8-Pc-Set](#)
- [J09501-1-Qt-Sauce-Pan](#)
- [J09502-2-Qt-Sauce-Pan](#)
- [J09503-5-Qt-Dutch-Oven](#)
- [J09504-8-In-Gourmet](#)
- [J09505-10-In-Fry-Pan](#)
- [J0888-8-Pc-Set](#)
- [J08881-1-Qt-Sauce-Pan](#)

More



Metaadatok kezelése

Hasonlóan az adatokhoz:

- Szabályok
- Fogalmak



Location: <http://0.0.0.0:3000/manager/seek?>

GTW DIRECTORY

SEARCH THE GLOBAL TRADING WEB



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Manager

- ▶ [Action](#)*
- ▶ [Agent](#)*
- ▶ [Chore](#)*
- ▶ [Class](#)*
- ▶ [Relation](#)*

Search

- Click on class name at left to search for items of that class.
- Click on red triangle to view subclasses.





Location: http://0.0.0.0:3000/manager/seek?

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Manager

- ▶ [Action](#)*
- ▼ [Agent](#)*
 - ▶ [Aclserver](#)*
 - ▶ [Authorizer](#)*
 - ▶ [Basket](#)*
 - ▶ [Counter](#)*
 - ▶ [Distributor](#)*
 - ▶ [Facilitator](#)*
 - ▶ [Datasever](#)*
 - ▶ [Diskserver](#)*
 - ▶ [Interface](#)*
 - ▶ [Sqlpublisher](#)*
 - ▶ [Transformer](#)*
 - ▶ [Translator](#)*
- ▶ [Chore](#)*
- ▶ [Class](#)*
- ▶ [Relation](#)*

Find every [Interface](#) that satisfies the following criteria.

- ▶ [Rootclass](#)
- ▶ [Rootrelation](#)
- ▶ [Editor](#)
- ▶ [Capability](#)
- ▶ [Listener](#)
- ▶ [Nocreate](#)
- ▶ [Nochange](#)
- ▶ [Noupdate](#)
- ▶ [Nocommand](#)
- ▶ [Metadata](#)
- ▶ [Security](#)
- ▶ [Recipient](#)

9 items

- [Standard](#)
- [Browser](#)
- [Editor](#)
- [Coming](#)
- [Mimo](#)
- [Regal](#)
- [Costco](#)
- [Payless](#)
- [Sears](#)





Location: http://0.0.0.0:3000/manager/seek?

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Browser Editor Repository Library **Manager**

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Manager

- ▶ [Action](#)*
- ▶ [Agent](#)*
- ▶ [Chore](#)*
- ▶ [Class](#)*
- ▶ [Relation](#)*

Find every **Class** that satisfies the following criteria.

- ▶ **Superclass**
- ▶ **Predicate**
- ▶ **Attribute**
- ▶ **Sorter**
- ▶ **Documentation**

Refresh

Display

1 - 20 of 57 items

- [Aclserver](#)
- [Action](#)
- [Actioninvocation](#)
- [Agent](#)
- [Argumentrelation](#)
- [Attributerelation](#)
- [Authorizer](#)
- [Basket](#)
- [Boolean](#)
- [Character](#)
- [Chore](#)
- [Class](#)
- [Command](#)
- [Counter](#)
- [Dbkind](#)
- [Distributor](#)
- [Evaluablerelation](#)
- [Facilitator](#)
- [Datasever](#)
- [Diskserver](#)

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Browser Editor Repository Library Manager

LoadFile Transform IncorporateRules DumpFile

Manager

- ▶ Action*
- ▶ Agent*
- ▶ Chore*
- ▶ Class*
- ▼ Relation*
 - ▶ **Attributerelation***
 - ▶ Evaluablerelation*
 - ▶ Naryrelation*
 - ▶ Predicatorrelation*

Find every **Attributerelation** that satisfies the following criteria.

- Superrelation**
- Domain**
- Range**
- Unique**
- Total**
- Createstyle**
- Changestyle**
- Searchstyle**
- Comparestyle**
- Inspectstyle**
- Hierarchyrelation**
- Option**
- Searchdefault**
- Changedefault**
- Searchlabel** Exact?
- Changelabel** Exact?
- Documentation**

Refresh

Display

1 - 20 of 308 items

- [Accessible](#)
- [Argument](#)
- [Arity](#)
- [Attribute](#)
- [Basetime](#)
- [Capability](#)
- [Casename](#)
- [Changedefault](#)
- [Changelabel](#)
- [Changepage](#)
- [Changestyle](#)
- [Classifier](#)
- [Column](#)
- [Createpage](#)
- [Createstyle](#)
- [Comparestyle](#)
- [Database](#)
- [Documentation](#)
- [Domain](#)
- [Editable](#)

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Manager

- ▶ [Action](#)*
- ▶ [Agent](#)*
- ▶ [Chore](#)*
- ▶ [Class](#)*
- ▼ [Relation](#)*
- ▶ [Attributerelation](#)*
- ▶ [Evaluablerelation](#)*
- ▶ [Naryrelation](#)*
- ▶ [Predicaterelation](#)*

Find every [Attributerelation](#) that satisfies the following criteria.

- [Superrelation](#)
- [Domain](#)
- [Range](#)
- [Unique](#)
- [Total](#)
- [Createstyle](#)
- [Changestyle](#)
- [Searchstyle](#)
- [Comparestyle](#)
- [Inspectstyle](#)
- [Hierarchyrelation](#)
- [Option](#)
- [Searchdefault](#)
- [Changedefault](#)
- [Searchlabel](#) Exact?
- [Changelabel](#) Exact?
- [Documentation](#)

11 items

- [Type](#)
- [Material](#)
- [Interior](#)
- [Exterior](#)
- [Color](#)
- [Capacity](#)
- [Diameter](#)
- [MSRP](#)
- [Manufacturer](#)
- [UPC](#)
- [Image](#)





Location: <http://0.0.0.0:3000/manager/ENUMERATE?>

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[LoadFile](#) [Transform](#) [IncorporateRules](#) [DumpFile](#)

<input type="checkbox"/>	Attributerelation	Superrelation	Domain	Range	Unique	Total	Createstyle	Changestyle	Searchstyle	Comparestyle	Inspectstyle
<input type="checkbox"/>	Type	Unspsc.521518.Feature	Unspsc.521518	Type	Yes	Yes	Dropdownlist	Dropdownlist	Dropdownlist	Glyph	Glyph
<input type="checkbox"/>	Material	Unspsc.521518.Feature	Unspsc.521518	Material	No	Yes	Dropdownlist	Dropdownlist	Dropdownlist	Glyph	Glyph
<input type="checkbox"/>	Interior	Unspsc.521518.Feature	Unspsc.521518	Material	No	Yes	Dropdownlist	Dropdownlist	Dropdownlist	Glyph	Glyph
<input type="checkbox"/>	Exterior	Unspsc.521518.Feature	Unspsc.521518	Material	No	Yes	Dropdownlist	Dropdownlist	Dropdownlist	Glyph	Glyph
<input type="checkbox"/>	Color	Unspsc.521518.Feature	Unspsc.521518	Color	No	Yes	Dropdownlist	Dropdownlist	Dropdownlist	Glyph	Glyph
<input type="checkbox"/>	Capacity	Unspsc.521518.Feature	Unspsc.521518	Number	Yes	Yes	Typein	Typein	Interval	Glyph	Glyph
<input type="checkbox"/>	Diameter	Unspsc.521518.Feature	Unspsc.521518	Number	Yes	Yes	Typein	Typein	Interval	Glyph	Glyph
<input type="checkbox"/>	MSRP	Unspsc.521518.Feature	Unspsc.521518	Number	Yes	Yes	Typein	Typein	Interval	Glyph	Glyph
<input type="checkbox"/>	Manufacturer	Unspsc.521518.Feature	Unspsc.521518	Company	Yes	Yes	Glyph	Glyph	Dropdownlist	Glyph	Glyph
<input type="checkbox"/>	UPC	Unspsc.521518.Feature	Unspsc.521518	String	Yes	No	Stringfield	Stringfield	Noshow	Glyph	Glyph
<input type="checkbox"/>	Image	Unspsc.521518.Feature	Unspsc.521518	String	No	No	Stringfield	Stringfield	Noshow	Glyph	Glyph

Display answers 1 through 11



Location: <http://0.0.0.0:3000/manager/INSPECT?Object=UNSPSC.521518.MATERIAL>

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Unspsc.521518.Material is an object of type [Attributerelation](#).

Superrelation	Unspsc.521518.Feature
Domain	Unspsc.521518
Range	Material
Unique	No
Total	Yes
Createstyle	Dropdownlist
Changestyle	Dropdownlist
Searchstyle	Dropdownlist
Comparestyle	Glyph
Inspectstyle	Glyph
Hierarchyrelation	
Option	Aluminum , Ceramic , Glass , Iron , Stainless
Searchdefault	
Changedefault	
Searchlabel	
Changelabel	
Documentation	





Location: http://0.0.0.0:3000/manager/CHANGE?

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Unspsc.521518.Material is an object of type [Attributerelation](#).

- [Superrelation](#) Unspsc.521518.Feature
- [Domain](#) Unspsc.521518
- [Range](#) Material
- [Unique](#) No
- [Total](#) Yes
- [Createstyle](#) Dropdownlist
- [Changestyle](#) Dropdownlist
- [Searchstyle](#) Multichoicelist
- [Comparestyle](#) Glyph
- [Inspectstyle](#) Glyph
- [Hierarchyrelation](#)
- [Option](#) Aluminum
- Ceramic
- Copper
- Glass
- Stainless
- [Searchdefault](#)
- [Changedefault](#)
- [Searchlabel](#)





Location: <http://0.0.0.0:3000/metalibrary/QBEVIEW?>

GTW DIRECTORY

SEARCH THE GLOBAL TRADING WEB



[Browser](#) [Editor](#) [Repository](#) [Library](#) [Manager](#)

[LoadFile](#) [Transform](#) [IncorporateRules](#) [Concordance](#) [DumpFile](#)

Specialty

?X ?Y

Specialist

?Y ?X

this rule.

Specialty

?X ?Y

Specialist

?Y ?X

this rule.

Specialist

?X ?Y

Specialty

?Y ?X

this rule.





Location: http://0.0.0.0:3000/metalibrary/QBEVIEW?

GTW DIRECTORY

SEARCH THE GLOBAL TRADING WEB



[Browser](#) [Editor](#) [Repository](#) [Library](#) [Manager](#)

[LoadFile](#) [Transform](#) [IncorporateRules](#) [Concordance](#) [DumpFile](#)

Isa

?X Attributerelati

Isa

?X Relation

this rule.

Isa

?X Attributerelati

Arity

?X 2

this rule.

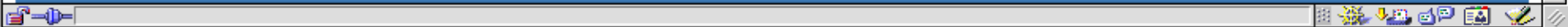
Isa

?X Attributerelati

Isa

?X Thing

this rule.





Location: <http://0.0.0.0:3000/manager/CREATE?>

GTW DIRECTORY

SEARCH THE GLOBAL TRADING WEB



[Browser](#) [Editor](#) [Repository](#) [Library](#) [Manager](#)

[LoadFile](#) [Transform](#) [IncorporateRules](#) [DumpFile](#)

Create as an object of type [Interface](#).

Rootclass

Rootrelation

Editor

Capability

Listener

Header

```
<CENTER><H1>Walmart Catalog</H1></CENTER>
```

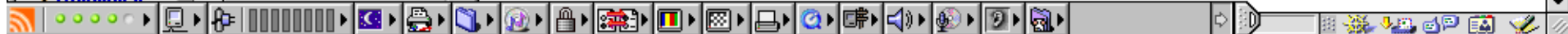
Footer

```
<CENTER>(c) Walmart Inc.</CENTER>
```

Page

Nocreate

Nochange





Location: http://0.0.0.0:3000/manager/CREATE?

GTW DIRECTORY

SEARCH THE GLOBAL TRADING WEB



[Browser](#) [Editor](#) [Repository](#) [Library](#) [Manager](#)

[LoadFile](#) [Transform](#) [IncorporateRules](#) [DumpFile](#)

Walmart is an object of type [Interface](#).

[Rootclass](#) [Unspsc.521518](#), [Unspsc.521520](#)

[Rootrelation](#)

[Editor](#)

[Capability](#)

[Listener](#)

[Header](#) <CENTER><H1>Walmart Catalog</H1></CENTER>

[Footer](#) <CENTER>(c) Walmart Inc. </CENTER>

[Page](#)

[Nocreate](#)

[Nochange](#)

[Noupdate](#)

[Nocommand](#)

[Logfile](#)

[Metadata](#)

[Security](#)

[Recipient](#) [Integrator](#)

Change this Interface.

Textual Inspector

Convert to KIF

Save

Drop





Location: <http://0.0.0.0:3000/walmart/seek?>

Walmart Catalog

Walmart

- ▶ [Unspsc.521518*](#)
- ▶ [Unspsc.521520*](#)

Find every [Unspsc.521518](#) that satisfies the following criteria.

Type

Material

Interior

Exterior

Color

Capacity At least and at most

Diameter At least and at most

MSRP At least and at most

Manufacturer

1 - 20 of 260 items

- [3500115-8in-Skillet](#)
- [3500116-10in-Skillet](#)
- [3500117-15in-Skillet](#)
- [3500130-8in-Skillet](#)
- [3500131-10in-Skillet](#)
- [3500132-12in-Skillet](#)
- [3500508-4qt-Steamer-Insert](#)
- [3500684-Multi-Cooker-Set](#)
- [3500685-Multi-Cooker-Set](#)
- [3500783-8in-Skillet](#)
- [3500784-10in-Skillet](#)
- [3500785-12in-Skillet](#)
- [3500786-8in-Skillet](#)
- [3500787-10in-Skillet](#)
- [3500788-12in-Skillet](#)
- [3500793-12in-Chicken-Fryer](#)
- [3500795-12in-Chicken-Fryer](#)
- [3500805-8pc-Set](#)
- [3500806-8pc-Set](#)
- [3500830-11in-Griddle](#)

