



**Chemical Anchoring Range**



Welcome to the 'Buffalo' range of chemical fixing technology. A range extensively researched and produced for use in the construction industry and allied markets. We are committed to supplying consistent and sustainable quality products that have been subjected to a rigorous and extensive testing program.

Our comprehensive range has been specifically designed to provide for all applications and sectors of construction. The clear colour coded selection criteria should ensure you can simply select the fixing resin that is most suitable for your application from pure epoxy through to polyester.

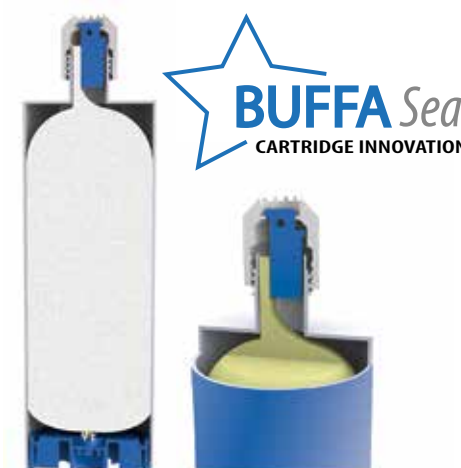
We are able to provide a complete solution with full technical data, support, information, product testing and specific formulations if required for engineers, architects and users of the product. The customer web resource area can be found at [www.strongfast-uk.com](http://www.strongfast-uk.com) where you can access technical and health and safety data.

The Buffalo range is supported by the many approvals required by the construction industry to meet international standards and give our customers 100% peace of mind in product performance & regulatory compliance. Please contact your local Buffalo distributor for further information.

# CHEMICAL FIXING TECHNOLOGY..



For a Secure Hold



## Advantages..

- A new easy open and extrusion system for anchoring cartridges.
- Unique foil bag inner provides an easier extrusion (less force).
- BuffaSeal cap allows re-use, open and close.
- Fuller resin extrusion - more resin where you need it.
- Available in 300ml in the resin range.





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Chemical Anchor Resins Type Approvals



Resin Name & Sizes	C2 Seismic	C1 Seismic	Option 1 Cracked	Option 7 Non Cracked	Post In- stalled Rebar	Diamond Drilled Holes	Bricks & Masonry	Aerated Concrete	Fire	Dust Free Drilling	WRAS (Water)	VOC A+ LEED
Buffalo PUR400 / 500	19/0705 M12-M24 STUDS	19/0705 M8-M30 STUDS	19/0705 M8-M30 STUDS 12-32 REBAR	19/0705 M8-M30 STUDS 8-32 REBAR	18/1157 8-40 REBAR	M8-M30 STUDS 8-32 REBAR			YES	YES	YES	YES
Buffalo VYLSF			22/0328 M8-M24 STUDS	22/0328 M8-M24 STUDS 8-25 REBAR	19/0102 8-12 REBAR		22/0381 M6-M12 CATEGORY c (w/d)	22/0381 M6-M12 AAC AUTO- CLAVED	YES	YES	YES	YES
Buffalo EPSF				18/0800 M8-M24 STUDS 8-25 REBAR			18/0799 M6-M12 CATEGORY c (w/d)			YES	YES	YES
Buffalo XPSF				15/0008 M8-M16 STUDS			19/0496 M6-M12 CATEGORY c (w/d)				YES	YES
Buffalo XP							16/0907 M8-M12 CATEGORY b,c (w/d)					YES

 = ETA Includes 100 years anchor service life

# BUFFALO PUR 400 & 500 Pure Epoxy

Pure Epoxy High Performance Chemical Anchor

LEED tested ETA CE VOC CLASSIFICATION: A+ WRAS APPROVED MATERIAL 100 YEARS ANCHOR LIFE C2 Seismic

VERY HIGH LOADS  
SLOW CURING



Approvals:	
Type:	European Technical
Concrete: Inc. C1	M8-M30 / 8-32mm
C2 Seismic:	M12-M24
Post Installed Rebar:	8-40mm (+ Fire)
Life of Anchor:	100 Years
Potable Water:	WRAS approved
VOC Test:	A+ Rated
LEED Tested:	Yes
Manufacturing:	ISO 9001/14001
Temp Range:	1,2 and 3 in ETA
Dustless Drilling:	Yes

Performance:	
Bond Strength:	●●●●●●●●
Versatility:	●●●●●●●●
Chemical Resistance:	●●●●●●●●
Environment:	Wet / Damp / Dry
Temperature:	
Gel + Cure Time:	Slow Setting
Install temperature:	+5°C to +45°C
Key Benefits:	
• For Large Diameters & Setting Depths	
• For Corrosive Environments e.g. seawater	
• 100 Years Anchor Life and Seismic Approval	

Features:	
Resin Colours:	Red
Colour Change:	N/A
Cartridges:	585ml 3:1 400 1:1
Density:	1.52kg/m3
Viscosity:	Low
Shelf Life:	24 Months
Mixer:	Buffalo Epoxy Mix™



# BUFFALO VYLSF 410 Vinylester

Styrene Free Chemical Anchor

LEED tested ETA CE VOC CLASSIFICATION: A+ WRAS APPROVED MATERIAL AAC AUTOCLAVED AERATED CONCRETE

VERY HIGH LOADS  
10:1 CARTRIDGES



Approvals:	
Type:	European Technical
Concrete: Opt 7+1	M8-M24 / 8-25mm
Masonry:	M6-M12
Lightweight Concrete:	M6-M12
Post Installed Rebar:	8-12mm (+ Fire)
Life of Anchor:	50 Years
Potable Water:	WRAS approved
VOC Test:	A+ Rated
LEED Tested:	Yes
Manufacturing:	ISO 9001/14001
Temp Range:	1,2 and 3 in ETA
Dustless Drilling:	Yes

Performance:	
Bond Strength:	●●●●●●●●
Versatility:	●●●●●●●●
Chemical Resistance:	●●●●●●●●
Environment:	Wet / Damp / Dry
Temperature:	
Gel + Cure Time:	Fast Setting
Install temperature:	-10°C to +35°C
Key Benefits:	
• Fast Curing, For Cracked Concrete	
• For Corrosive Environments & High Loads	
• Approved for Concrete, Rebar & Masonry	

Features:	
Resin Colours:	Grey
Cartridges:	410ml Coaxial
Density:	1.67kg/m3
Viscosity:	MEDIUM
Shelf Life:	18 Months
Mixer:	T-Flow™





# BUFFALO EPSF410/300 Epoxy Acrylate

Styrene Free Chemical Anchor



HIGH LOADS



Approvals:	
Type:	European Technical
Concrete: Opt 7	M8-M24 / 8-25mm
Masonry:	M6-M12
Post Installed Rebar:	N/A
Life of Anchor:	50 Years
Potable Water:	WRAS approved
VOC Test:	A+ Rated
LEED Tested:	Yes
Manufacturing:	ISO 9001/14001
Temp Range:	1 in ETA
Dustless Drilling:	Yes

Performance:	
Bond Strength:	●●●●●●●●●●
Versatility:	●●●●●●●●●●
Chemical Resistance:	●●●●●●●●●●
Environment:	Wet / Damp / Dry
Temperature:	
Gel + Cure Time:	Fast Setting
Install temperature:	-10°C to +35°C
Key Benefits:	
• Suitable for High Loads in Concrete	
• Ideal for Outdoor & Masonry Installations	
• WRAS Drinking Water Approval	

Features:	
Resin Colours:	Grey
Cartridges:	300ml Foil Bag 410ml Coaxial
Density:	1.67kg/m3
Viscosity:	MEDIUM
Shelf Life:	18 Months
Mixer:	T-Flow™



# BUFFALO XPSF410/300 Polyester

Styrene Free Chemical Anchor



MEDIUM LOADS



Approvals:	
Type:	European Technical
Concrete: Opt 7	M8-M16
Masonry:	M6-M12
Post Installed Rebar:	N/A
Life of Anchor:	50 Years
Potable Water:	Yes
VOC Test:	A+ Rated
LEED Tested:	Yes
Manufacturing:	ISO 9001/14001
Temp Range:	1 and 2 in ETA
Dustless Drilling:	N/A

Performance:	
Bond Strength:	●●●●●●●●●●
Versatility:	●●●●●●●●●●
Chemical Resistance:	●●●●●●●●●●
Environment:	Damp / Dry
Temperature:	
Gel + Cure Time:	Fast Setting
Install temperature:	-10°C to +35°C
Key Benefits:	
• Suitable for High Loads in Concrete	
• Ideal for indoor & Masonry Installations	
• WRAS Drinking Water Approval	

Features:	
Resin Colours:	Grey
Cartridges:	300ml Foil Bag 410ml Coaxial
Density:	1.71kg/m3
Viscosity:	MEDIUM
Shelf Life:	18 Months
Mixer:	T-Flow™







# Extrusion Tools

## Manual Extrusion Tools

Description	Code	Box Qty
165/300ml Silicone	65463	12
380/420ml 10:1	65464	10
345ml 10:1	65472	10
385ml 10:1	65467	10
385/585ml 3:1	65480	10
400ml 1:1	69841	10
400/600ml 1:1	60134	10
Characteristics		
For use with:	Buffalo resins	
Rubber Grip:	65464/69841/60134	
Colors:	Red	
Loads:	Various	



## Description:

Buffalo Extrusion Tools are specifically designed & developed to work with the Buffalo resin range, and so feature in Buffalo European Approvals.

They are specifically geared to give the correct extrusion force for the perfect user experience, but more importantly to avoid damaging the cartridge.

## Drill Adaptors

Description	Code	Box Qty
165/300ml silicone	68894	15
380/420ml 10:1	68895	15
400/600ml sausage	68899	15
Characteristics		
For use with:	Buffalo resins	
Recommended Nm:	12	
Drill Type:	12v	
Lightweight:	0.8kg	



## Description:

The Drill Adaptor Extrusion Tool is a patented innovation which allows any battery operated power drill to be converted to a powerful extrusion tool for Silicone or Chemical anchoring cartridges without the need for a separate dedicated battery tool.

Your standard work drill can be converted to a fast extrusion tool and back in a matter of seconds so you don't have to worry about storing and charging separate battery packs.

## Pneumatic Tools

Description	Code	Box Qty
380/420ml 10:1	65461	1
400ml 1:1	65466	1
600ml 1:1	65479	1
825ml 10:1	65462	1
385/585ml 3:1	65481	1
1400ml 3:1	76405	1
1500ml 1:1	78778	1
Characteristics		
For use with:	Buffalo resins	



## Description:

Driven by a standard Pneumatic air line for effortless extrusions.

- Unlimited & smooth extrusions.
- 2.2kN of extrusion force at 6.8 bar pressure\*.
- Pressure control, 1000psi regulator.
- 12 Month manufacturer warranty



# XP410/300 Polyester

## Polyester Chemical Anchor



MEDIUM LOADS



## Approvals:

Type:	European Technical
Concrete: Opt 7	N/A
Masonry:	M8-M12
Post Installed Rebar:	N/A
Life of Anchor:	50 Years
Potable Water:	No
VOC Test:	A+ Rated
LEED Tested:	Yes
Manufacturing:	ISO 9001/14001
Temp Range:	N/A
Dustless Drilling:	N/A

## Performance:

Bond Strength:	●●●●●●●●●●
Versatility:	●●●●●●●●●●
Chemical Resistance:	●●●●●●●●●●
Environment:	Damp / Dry
Temperature:	
Gel + Cure Time:	Fast Setting
Install temperature:	-10°C to +35°C

## Key Benefits:

- Suitable for Medium Loads in Concrete
- Ideal Crack Stitching & Masonry
- Very Economical & Versatile.

## Features:

Resin Colours:	Grey
Cartridges:	
300ml Foil Bag	410ml Coaxial
Density:	1.67kg/m3
Viscosity:	MEDIUM
Shelf Life:	18 Months
Mixer:	T-Flow™



# Mixer Nozzles

Accurate mixing of 2-component materials

1

2

3

4

5

6

SUPERIOR final mix


LESS wastage mix

FASTER mix


EASIER to extrude

HELICAL Deflectors

PATENTED diffuser



Decades of research and experience in the field of chemical anchoring have culminated in Buffalo designing and manufacturing its very own patented mixer nozzle. The T-Flow mixer nozzle brings numerous benefits, principally to the chemical anchor user, but also in a wider sense. The T-Flow is the smallest mixer in its class and requires less material to manufacture it and creates less waste both of resin product and material. It achieves this using the patented diffuser, which allows a superior mix in a smaller nozzle.





T-Flow Mixer

Description	Code	Box Qty
T-Flow Standard	22481	600
T-Flow + Hanger	22482	500
T-Flow Short	65553	1000
T-Flow Short + Hanger	21752	700
Characteristics		
For use with:	All 10:1 resins / Buffalo 10	
Thread Type:	All cartridges	
Hanger option:	165/300/420ml	
Colors:	Translucent	
Included in ETA:	YES	



Extension Nozzles

Description	Code	Box Qty
Extension 250mm	65573	1500
Extension 1000mm	65579	450
Characteristics		
For use with:	All resins types	
Connection Type	All cartridges	
Colors:	Translucent	
Thread Type:	Push Fit	
Included in ETA:	YES	



Epoxy Mixer

Description	Code	Box Qty
Epoxy Mixer Standard	65559	400
Epoxy Mixer 1500	65560	800
Characteristics		
For use with:	Epoxy resins types	
Thread Type:	All cartridges	
Hanger option:	No	
Colors:	Translucent	
Included in ETA:	YES	

# Hole Preparation

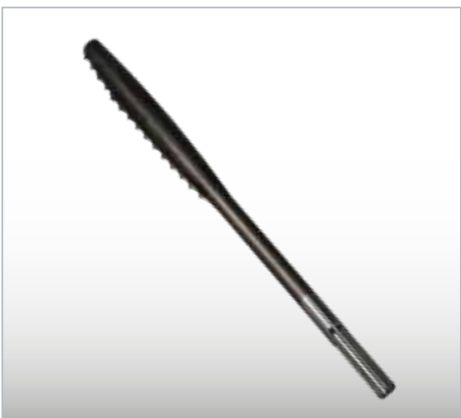
Cleaning & preparation of drilled holes



Correct drill hole preparation is extremely important in maintaining the published performance values in European Approvals and technical data for the vast majority of situations. Cleaning and preparation procedures are also clearly documented within the installation procedures section of any given European Approval.

Buffalo stock and supply the entire range of ancillary items to carry out hole cleaning, namely the removal of dust and debris which remains in the hole following normal hammer drilling, and also the roughening of diamond drilled holes, when circumstances dictate this.

More information is available from the Buffalo Technical Department,



Hole Roughening Tool

Description	Code	Box Qty
M16 (18mm hole)	78437	1
M20 (22-25mm hole)	78438	1
M24 (26-28mm hole)	78439	1
M27-30 (32-35mm)	78440	1
Characteristics		
For use with:	SDS Max Drilling	
Thread Type:	SDS	
Application:	Roughening of diamond drilled holes	
Colors:	Gun Metal Grey	
Included in ETA:	NO	



Air Blow Pump

Description	Code	Box Qty
Length 190mm	65561	24
Length 280mm	65562	24
Length 400mm	84106	24
Characteristics		
For use with:	Diameters do ≤ 20mm embedment depths up to hef ≤ 10d	
Type:	Hand Operated	
Colors:	Grey	
Thread Type:	Push Fit	
Included in ETA:	YES	



Steel Brushes

Description	Code	Box Qty
10mm Diameter	65578	50/600
13mm Diameter	65575	40/480
18mm Diameter	65576	50/300
22mm Diameter	66559	50/300
28mm Diameter	65577	40/240
Characteristics		
For use with:	Diameters do ≤ 20mm embedment depths up to hef ≤ 10d	
Length:	300mm	
Type:	Hand Operated	
Included in ETA:	YES	





# Sockets & Sleeves

Hollow Walls / Masonry / Block / Asphalt / Removable

## Chembolt Asphalt Fixing



Description	Code	Box Qty
M10 x 70mm	65368	50
M10 x 100mm	65369	50
M12 x 70mm	65370	50
M12 x 100mm	65371	50
<b>Characteristics</b>		
For use with:	All Buffalo resins	
Thread Type:	ISO	
Application:	Removable Internal Thread	
Colors:	Zinc Passivated	
Loads:	1 - 1.8kN minimum	

## Application:



## Internal Threaded Socket



Description	Code	Box Qty
M6 (12/50 sleeves)	65501	50/1000
M8 (16/85 sleeves)	65502	50/600
M10 (16/85 sleeves)	65503	50/400
M12 (20/85)	65504	50/400
<b>Characteristics</b>		
For use with:	All Buffalo resins	
Thread Type:	ISO	
Application:	Removable Internal Thread	
Colors:	Zinc Passivated	
Loads:	Various	

## Application:



## Nylon Perforated Sleeves



Description	Code	Box Qty
12/50 mm	65564	5000
12/80 mm	65580	3000
16/85 mm	65565	2000
16/130 mm	65566	1200
20/85 mm	65567	1250
20/130 mm	68304	950
20/200 mm	69567	550
<b>Characteristics</b>		
For use with:	Buffalo 10:1 resins	
Application:	Hollow Wall Fixings	
Colors:	Grey / Translucent	
Loads:	Various	

## Application:



# Bagged Ancillaries

Nylon Perforated Sleeves & Mixers



Product Code	Description	Number Per Bag	Number Per Box	Total pcs
79561	SLEEVE 12 X 50	10	500	5000
79563	SLEEVE 12 X 50	25	200	5000
79562	SLEEVE 12 X 80	10	250	2500
79566	SLEEVE 12 X 80	25	100	2500
79564	SLEEVE 16 X 85	10	200	2000
79565	SLEEVE 16 X 85	25	80	2000
79567	SLEEVE 16 X 130	10	120	1200
79806	SLEEVE 16 X 130	25	48	1200
79807	SLEEVE 20 X 85	10	120	1200
79808	SLEEVE 20 X 85	25	48	1200
79809	SLEEVE 20 X 130	10	90	900
79810	SLEEVE 20 X 130	25	37	925
79811	250MM EXT TUBES	10	150	1500
79812	T-FLOW MIXER	10	100	1000
79813	T-FLOW MIXER SHORT	10	120	1200
79814	SPREADER (WHITE)	10	10	100



## Metal Perforated Sleeves



Description	Code	Box Qty
12mm x 1000mm	65568	50
16mm x 1000mm	65569	50
22mm x 1000mm	65570	25
26mm x 1000mm	65571	25
<b>Characteristics</b>		
For use with:	Buffalo 10:1 resins	
Application:	Hollow Wall Fixings	
Colors:	Grey	
Loads:	Various	

## Description:

Galvanized Metal sleeves are a highly effective way to make a fixing of a specific length, in a substrate with a hollow void.

The sleeves can be cut and sealed to suit the length and come in 4 diameters.







## On Site Kits with Hole Cleaning Equipment



## Site Kit Case

Description	Code	Box Qty
Case with filled 300ml	Enquire	5
Case with filled 380-420ml	Enquire	5
Case Empty	41877	5
Full w/o cartridges 300ml	41882	5
Full w/o cartridges 380-420ml	75416	5

**Description:**

The Buffalo site kit case has been specifically designed to suit Buffalo cartridges and accessories. The kit contains everything required to complete a safe and efficient chemical anchor fixing.

Ideal for on site to keep your cartridges and ancillaries safe and in one place.



## Filling Level Table

		No. of Holes Per Cartridge by Cartridge Type					
Stud Size	Hole fill depth (mm)	300ml	410ml	400ml	585ml	Drill Diameter	Embedment Depth
M8	41	88	121	118	172	10	80
M10	42	59	80	78	115	12	90
M12	47	39	54	53	77	14	110
M16	45	25	34	33	48	18	125
M20	76	8	11	11	16	22	170
M24	79	6	8	8	11	28	210
M30	106	3	4	4	6	38	280



# Notes

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# Product Codes

## STRONG FAST GROUP - Buffalo Branded Chemical Anchoring

### BOX QTY

75108	400ML CHEMFIX100 RED 1L BUFFALO	12
79546	410ML CH+ MAX GRY 1L BUFFALO	12
75227	585ML CHEMFIX500 1L BUFFALO	12
75569	410ML EASF TOP GRY 1L BUFFALO	12
75570	410ML PE GRY 1L BUFFALO	12
75571	410ML PESF TOP GRY 1L BUFFALO	12
75669	300ML CS EASF TOP GRY 1L BUFFALO	15
75670	300ML CS PESF TOP GRY 1L BUFFALO	15
75671	300ML CS PE GRY 1L BUFFALO	15
41883	380ML BLK CASE NO CART BAFFALO	5
75547	T-FLOW MIXERS BOXED	100

All chemical anchors are with 1 Mixer each, loose.

## Ancillaries

### Mixers & Extensions

### BOX QTY

79812	T-FLOW MIXER x 10	1000
79813	T-FLOW MIXER SHORT x 10	1200
79811	EXTENSION TUBE - 250MM x 10	1500

### Bagged Mixers

### BOX QTY

79812	T-FLOW MIXER x 10	1000
79813	T-FLOW MIXER SHORT x 10	1200
79811	EXTENSION TUBE - 250MM x 10	1500

### Black Kit Cases

### BOX QTY

41877	BLACK PRESENTATION CASE	5
41882	300ML BLK CASE NO CART GENERIC	5
75416	380ML BLACK CASE [NO CARTS]	5

### Chembolt Asphalt Fixings

### BOX QTY

65368	CHEMBOLT M10 X 70 (50PCS)	50
65369	CHEMBOLT M10 X 100 (50PCS)	50
65370	CHEMBOLT M12 X 70 (50PCS)	50
65371	CHEMBOLT M12 X 100 (50PCS)	50

### Hole Roughening Tools SDS

### BOX QTY

78437	ROUGHENING TOOL SDS MAX M16 (18mm hole)	1
78438	ROUGHENING TOOL SDS MAX M20 22-25mm hole	1
78439	ROUGHENING TOOL SDS MAX M24 26-28mm hole	1
78440	ROUGHENING TOOL SDS MAX M27-30 (32-35mm)	1

### Extrusion Tools

### BOX QTY

65461	PNEUMATIC EXTRUSION TOOL 380ML - 420ML 10:1	1
65466	PNEUMATIC EXTRUSION TOOL 400ML 1:1 epoxy	1
65463	MANUAL EXTRUSION TOOL 300ML 10:1	12
65464	MANUAL EXTRUSION TOOL 380ML-420ML 10:1	10
69841	MANUAL EXTRUSION TOOL 400ML 1:1 epoxy	10
65480	MANUAL EXTRUSION TOOL 385/585ML 3:1 epoxy	10



# Product Codes

## Internal Threaded Sockets

### BOX QTY

65501	INTERNAL THREADED SOCKET M6	50
65502	INTERNAL THREADED SOCKET M8	50
65503	INTERNAL THREADED SOCKET M10	50
65504	INTERNAL THREADED SOCKET M12	50

## Hole Cleaning Equipment

### BOX QTY

65561	PUSH PUMP 190MM	24
65562	PUSH PUMP 280MM	24
84106	PUSH PUMP 400MM	24
65575	METAL BRUSH (13 x 80 x 300)	40
65576	METAL BRUSH (18 x 80 x 300)	50
66559	METAL BRUSH (22 x 80 x 300)	50
65577	METAL BRUSH (28 x 80 x 300)	40

## Bagged Nylon Perforated

### BOX QTY

### Sleeves

79561	12/50 SLEEVE NYLON X 10	5000
79563	12/50 SLEEVE NYLON X 25	5000
79562	12/80 SLEEVE NYLON X 10	2500
79566	12/80 SLEEVE NYLON X 25	2500
79564	16/85 SLEEVE NYLON X 10	2000
79565	16/85 SLEEVE NYLON X 25	2000
79567	16/130 SLEEVE NYLON X 10	1200
79806	16/130 SLEEVE NYLON X 25	1200
79807	20/85 SLEEVE NYLON X 10	1200
79808	20/85 SLEEVE NYLON X 25	1200
79809	20/130 SLEEVE NYLON X 10	900
79810	20/130 SLEEVE NYLON X 25	925

## Metal Perforated Sleeves

### BOX QTY

### 1m

65568	METAL SLEEVE - 12MM Diameter X 1M	50
65569	METAL SLEEVE - 16MM Diameter X 1M	50
65570	METAL SLEEVE - 22MM Diameter X 1M	25
65571	METAL SLEEVE - 26MM Diameter X 1M	25

## Drill Adaptors

### BOX QTY

68894	DRILL ADPTR EXTR TOOL 280/300ML	15
68895	DRILL ADPTR EXTR TOOL COAXIAL 380/420ML	15
78562	DRILL ADPTR EXTR TOOL FOIL 400ML	15
68899	DRILL ADPTR EXTR TOOL FOIL 600ML	9



Approved Distributor:

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