



Automotive Aftermarket Division

3M™ Perfect-It™ Random Orbital Polishing System

1) Part Numbers

3M Part Numbers	3M Part Description	
Polishing Tools		Voltage/ Frequency/ Plug Type
34102E	3M™ Perfect-It™ Random Orbital Polisher 15mm	230V/ 50Hz/ Plug Type F (Majority of European Countries)
34103E	3M™ Perfect-It™ Random Orbital Polisher 21mm	230V/ 50Hz/ Plug Type F (Majority of European Countries)
34104E	3M™ Perfect-It™ Random Orbital Polisher 15mm	230V/ 50Hz/ Plug Type G (UK)
34105E	3M™ Perfect-It™ Random Orbital Polisher 21mm	230V/ 50Hz/ Plug Type G (UK)
34144E	3M™ Perfect-It™ Random Orbital Polisher 15mm	230V/ 50Hz/ Plug Type C (CH)
34145E	3M™ Perfect-It™ Random Orbital Polisher 21mm	230V/ 50Hz/ Plug Type C (CH)
Back Up Pads		Specification
34128	3M™ Perfect-It™ Random Orbital Polisher Back Up Pad 15mm	130mm
34129	3M™ Perfect-It™ Random Orbital Polisher Back Up Pad 21mm	150mm
Pads		Specification
34120	3M™ Perfect-It™ Random Orbital Coarse Wool Pad, 5"/130 mm	130mm, White Wool
34124	3M™ Perfect-It™ Random Orbital Coarse Wool Pad, 6"/150 mm	150mm, White Wool
34121	3M™ Perfect-It™ Random Orbital Medium Wool Pad, 5"/130 mm	130mm, White/Black Wool
34124	3M™ Perfect-It™ Random Orbital Medium Wool Pad, 6"/150 mm	150mm, White/ Black Wool
34122	3M™ Perfect-It™ Random Orbital Foam Compounding Pad, 5"/130 mm	130mm, White Foam
34126	3M™ Perfect-It™ Random Orbital Foam Compounding Pad, 6"/150 mm	150mm, White Foam
34123	3M™ Perfect-It™ Random Orbital Foam Polishing Pad, 5"/130 mm	130mm, Purple Foam
34127	3M™ Perfect-It™ Random Orbital Foam Polishing Pad, 6"/150 mm	150mm, Purple Foam



Technical Data Sheet

Effective: 01/10/22 Supersedes: n/a

Liquids		
34130	3M™ Perfect-It™ Random Orbital Compound	473ml, White
34131	3M™ Perfect-It™ Random Orbital Compound	946ml, White
34132	3M™ Perfect-It™ Random Orbital Compound	3.78L, White
34133	3M™ Perfect-It™ Random Orbital Polish	473ml, Purple
34134	3M™ Perfect-It™ Random Orbital Polish	946ml, Purple
34145	3M™ Perfect-It™ Random Orbital Polish	3.78L, Purple

2) Description and end uses

Achieve the best possible finish on a variety of paints and clear coats with the 3M™ Perfect-It™ Random Orbital Finishing System. Our Perfect-It™ Random Orbital Pads are engineered to be used with our 3M™ Perfect-It™ Random Orbital Polisher and matched liquids for paint finishing and detailing professionals of all skill levels who want a finish without haze and swirl.

Achieve a high-gloss finish with no swirls, holograms, or burn through
 User-friendly, comfortable tool design
 Easy to learn and control

3) Physical Properties

Tool	3M ROP15	3M ROP21
Diameter of back up pad (mm)	130	150
Orbit (mm)	15	21
Power (W)	500	500
Voltage (V)	230	230
Frequency (Hz)	50	50
RPM	3000-5200	3000-4500
Weight (kg)	2.6	2.7
Insulation Class	II	II
Speed Regulator	Yes	Yes
Cord Length (m)	9	9

Pad	Coarse Wool		Medium Wool		Coarse Foam		Polishing Foam	
Product Type	Compounding Pad		Compounding Pad		Compounding Pad		Polishing Pad	
Pad Diameter	130mm	150mm	130mm	150mm	130mm	150mm	130mm	150mm
Composition	Coarse Wool		Medium Wool		Coarse Foam		Soft Foam	
Pad Thickness	13mm		13mm		25mm		25mm	
Density	Medium		Medium		Medium		Medium	
Colour	White		White/Black		White		Purple	



Technical Data Sheet

Effective: 01/10/22 Supersedes: n/a

NOTE: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Liquid	Compound	Polish
pH	8.2-8.7	8.2-9.0
Consistency	Thick Liquid	Thick Liquid
Colour	White	Purple
Specific Gravity	0.99-1.02g/ccm (Ref std: Water = 1)	1.08-1.16g/ccm (Ref std: Water = 1)
Viscosity	30,000-40,000 cps	30,000-50,000 cps
Volatile Organic Compounds (VOC)	17% weight	14.5% weight

4) Directions for Use

To install pad:	<ol style="list-style-type: none">Carefully centre the pad onto the backup pad.Press firmly and ensure proper attachment	
Directions for Use:	Wool Pad	Foam Pad
	<ol style="list-style-type: none">Ensure the surface is clean prior to startingUsing a 3M™ Conditioning Brush or any other conditioning brush/tool lightly rake the pad to remove any dried compound from previous use.Apply compound to the pad in a circular motion to ensure that most of the wool fibres have compound liquid on them by using the cap from the bottle to help spread.Set the pad flat on the surface and start at speed setting 2 to spread compound. Once the compound is spread out, then set tool speed at 4-6 with no pressure to remove the scratches/defects.	<ol style="list-style-type: none">Ensure the surface is clean prior to startingApply Polish to new pad in a circular pattern between the edge and centre of pad.Set the pad flat on the surface and start at speed setting 2 to spread the polish. Increase the speed as desired up to speed setting 4 as MAX.
NOTE: Clean pads often with a 3M™ Conditioning Brush or any other conditioning brush/tool for optimal performance.		



Technical Data Sheet

Effective: 01/10/22 Supersedes: n/a

Directions for Use:	Compound	Polish
	<ol style="list-style-type: none">1. Ensure the surface is clean prior to starting2. Apply the compound to the pad in a circular motion by using the cap from the bottle to help spread a small amount of compound throughout the pad.3. Set the pad flat on the surface and start at speed setting 4 to spread compound, increase speed as necessary. Apply medium pressure in a north/south, east/ west, crosshatch pattern to remove scratches/defects. Compound small areas at time, approximately a 2'x2' (60cm x 60cm) area is recommended to ensure adequate scratch/defect removal.4. Use a 3M™ Perfect-It™ High Performance Cloth to remove the residual film from the surface. If scratches/defects remain, apply 4 drops of compound to the pad and continue compounding.5. Ensure all sand scratches have been completely removed. Inspect the surface by spraying with 3M™ Finish Control Spray and wipe with a clean microfiber cloth.	<ol style="list-style-type: none">1. Ensure the surface is clean prior to starting2. Apply Polish to new pad in a circular pattern between the edge and centre of pad.3. Set the pad flat on the surface and start at speed setting 4 to spread polish. Reduce speed as necessary. Apply medium pressure in a north/south, east/ west, crosshatch pattern to remove swirls/defects. Polish small areas at time, approximately a 2'x2' (60cm x 60cm) area is recommended to ensure adequate swirl/defect removal.4. Use a 3M™ Perfect-It™ High Performance Cloth to remove the residual film from the surface5. If swirls/defects remain, apply 4 drops of polish to the pad and continue polishing.
NOTE: Clean pads often with a 3M™ Conditioning Brush or any other conditioning brush/tool for optimal performance.		

5) Storage

Product shall have a shelf life of 24 months from date of manufacture when stored in original unopened containers at standard room temperatures 21°C and 50% RH. Prevent storage above 38°C and below 5°C.

Protect from Freezing!



6) Safety

Before using the product, reference and understand the Product Labels and Product Manual for Health and Safety Information. Consult all Safety Data Sheets for chemical material used with this product. Follow all local regulations for use and disposal of all items/products associated with the use of this product.

3M™ Perfect-It™ Random Orbital Polishing System is designed FOR PROFESSIONAL INDUSTRIAL USE ONLY.

7) Disclaimer

All statements, technical information and recommendations are based on tests we believe to be reliable as at the date of hereof, but the accuracy or completeness thereof is not guaranteed. Please ensure before using the product that it is suitable for your intended use. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, other than for fraudulent misrepresentation, 3M expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.



Technical Data Sheet

Effective: 01/10/22 Supersedes: n/a

For Additional Health and Safety Information

<p>3M United Kingdom plc Automotive Aftermarket 3M Centre, Cain Road, Bracknell, RG12 8HT Tel: +44 (0)161 237 6391 aadukenquiries@mmm.com www.3Mbodyshop.co.uk</p>	<p>3M Ireland Limited Automotive Aftermarket The Iveagh Building Carrickmines Park Carrickmines , Dublin 18 Tel: +353 12160301 aadukenquiries@mmm.com www.3Mbodyshop.co.uk</p>	<p>3M Denmark a/s Automotive Aftermarket Hannemanns Allé 53 2300 København S Tel: +45 43480100 aadukenquiries@mmm.com www.3MAuto.dk</p>
<p>3M Finland, Suomen 3M Oy Autotuotteet Keilaniementie 1 02151 Espoo Tel: 09 5252 1 aadukenquiries@mmm.com www.3M.fi/autotuotteet</p>	<p>3M Svenska AB Automotive Aftermarket Herrjärva torg 4 170 67 Solna Tel: 08-922100 aadukenquiries@mmm.com www.3M.se/bileftermarkad</p>	<p>3M Norge AS Automotive Aftermarket Kanalveien 2 2004 Lillestrøm Tel: 06384 aadukenquiries@mmm.com www.3m.no/auto</p>
<p>3M Latvija K.Ulmana 5 Riga, LV-1004 Tel: +371 67066120 aadukenquiries@mmm.com www.3m.lv</p>	<p>3M Eesti OU Pärnu mnt. 158 11317 Tallinn Tel: +372 6 115 902 aadukenquiries@mmm.com www.3m.ee</p>	<p>3M Lietuva A.Goštauto str. 40 A LT-01112 Vilnius Tel: +370 5 2160780 aadukenquiries@mmm.com www.3m.lt</p>

3M™ and Perfect-It™ are trademarks of 3M Company, © 3M 2022, All rights reserved.