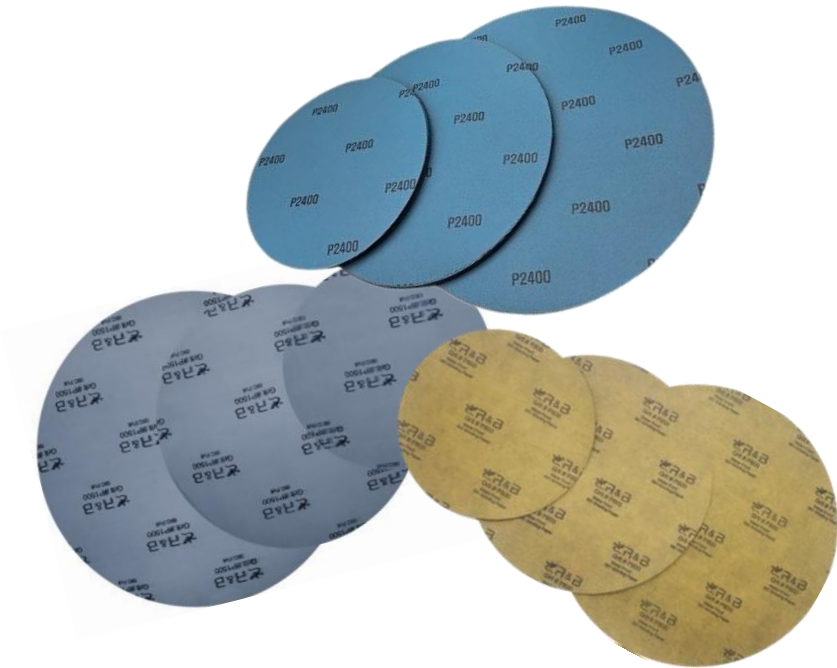




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R&B Sandpaper & SiC Foil



- Repeat Useable
- No Wrinkle & Wrap
- Easy Attachment & Remove



Design and Specification can be changed for quality improvement

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Sandpaper & SiC Foil

R&B Sandpaper

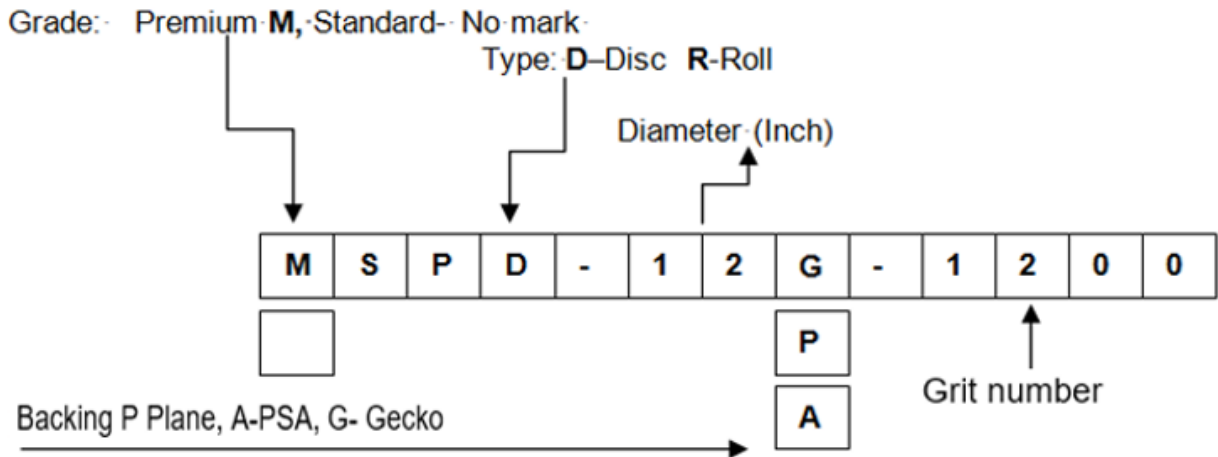
R&B에서는 Local, OEM, 수입 등 다양한 Sandpaper 및 SiC Foil 공급

R&B Sandpaper & Foil Code Table

- SPDN Series: 일반 Sandpaper
- SPDF Series: 일반 Sandpaper (Deer)
- SPDS Series: 일반 Sandpaper (Daesung)
- MSPD Series: 고급 Sandpaper & SiC Foil

R&B Sandpaper & Foil 분류방법

- Grit Range: FEPA P Grade, P60 ~P4000
- Shape and Dimension: Disc type 8", 10", 12" (Metric 200, 250, 300mm)
- Backing Treatment
 - Paper Plain, PSA
 - SiC Foil Plain
- Coding



R&B Sandpaper & Foil 종류

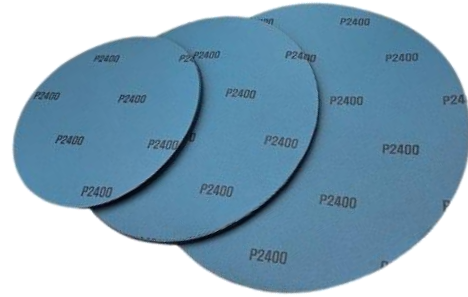
Standard Sandpaper

- Normal Sand paper
- Size: 8", 10", 12" (Metric 200, 250, 300mm)
- Back Treatment: Plane, PSA
- Grit No: P120~P2000
- Unit: 100Sheet/Pkg
- SPDS, SPDF, SPDN Series (Maker 별)



Premium Sandpaper

- Premium Sand Paper
- Size: 8", 10", 12"(Metric 200, 250, 300mm)
- Back Treatment: Plane
- Grit No: P120~P4000
- Unit: 50 Sheet/Pkg
- MSPD Series



SiC Foil

- SiC Abrasive with PET Film
- Repeat Useable
- No Wrinkle & Wrap
- Easy Attachment & Remove
- Used with Gecko I Plate
- Size: 8", 10", 12" (Metric 200, 250, 300mm)
- Back Treatment: Plane
- Grit No: P120~P2400
- Unit: 50Sheet/Pkg
- MSPD Series



Premium Sandpaper - MSPD Model

Plane Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
MSPD-8P-60	8" Dia., #60	MSPD-10P-60	10" Dia., #60	MSPD-10P-60	10" Dia., #60
MSPD-8P-120	8" Dia., #120	MSPD-10P-120	10" Dia., #120	MSPD-12P-120	12" Dia., #120
MSPD-8P-220	8" Dia., #220	MSPD-10P-220	10" Dia., #220	MSPD-12P-220	12" Dia., #220
MSPD-8P-400	8" Dia., #400	MSPD-10P-400	10" Dia., #400	MSPD-12P-400	12" Dia., #400
MSPD-8P-600	8" Dia., #600	MSPD-10P-600	10" Dia., #600	MSPD-12P-600	12" Dia., #600
MSPD-8P-800	8" Dia., #800	MSPD-10P-800	10" Dia., #800	MSPD-12P-800	12" Dia., #800
MSPD-8P-1000	8" Dia., #1000	MSPD-10P-1000	10" Dia., #1000	MSPD-12P-1000	12" Dia., #1000
MSPD-8P-1200	8" Dia., #1200	MSPD-10P-1200	10" Dia., #1200	MSPD-12P-1200	12" Dia., #1200
MSPD-8P-1500	8" Dia., #1500	MSPD-10P-1500	10" Dia., #1500	MSPD-12P-1500	12" Dia., #1500
MSPD-8P-2000	8" Dia., #2000	MSPD-10P-2000	10" Dia., #2000	MSPD-12P-2000	12" Dia., #2000
MSPD-8P-2400	8" Dia., #2400	MSPD-10P-2400	10" Dia., #2400	MSPD-12P-2400	12" Dia., #2400
MSPD-8P-4000	8" Dia., #4000	MSPD-10P-4000	10" Dia., #4000	MSPD-12P-4000	12" Dia., #4000

PSA Back

Plane back paper에 Gecko II Plate 사용으로 대체 가능

Standard Sandpaper – SPDF Series (Deer Force) Model

Plane Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
SPDF-8P-60	8" Dia., #60	SPDF-10P-60	10" Dia., #60	SPDF-12P-60	12" Dia., #60
SPDF-8P-120	8" Dia., #120	SPDF-10P-120	10" Dia., #120	SPDF-12P-120	12" Dia., #120
SPDF-8P-220	8" Dia., #220	SPDF-10P-220	10" Dia., #220	SPDF-12P-220	12" Dia., #220
SPDF-8P-400	8" Dia., #400	SPDF-10P-400	10" Dia., #400	SPDF-12P-400	12" Dia., #400
SPDF-8P-600	8" Dia., #600	SPDF-10P-600	10" Dia., #600	SPDF-12P-600	12" Dia., #600
SPDF-8P-800	8" Dia., #800	SPDF-10P-800	10" Dia., #800	SPDF-12P-800	12" Dia., #800
SPDF-8P-1000	8" Dia., #1000	SPDF-10P-1000	10" Dia., #1000	SPDF-12P-1000	12" Dia., #1000
SPDF-8P-1200	8" Dia., #1200	SPDF-10P-1200	10" Dia., #1200	SPDF-12P-1200	12" Dia., #1200
SPDF-8P-1500	8" Dia., #1500	SPDF-10P-1500	10" Dia., #1500	SPDF-12P-1500	12" Dia., #1500
SPDF-8P-2000	8" Dia., #2000	SPDF-10P-2000	10" Dia., #2000	SPDF-12P-2000	12" Dia., #2000

PSA Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
SPDF-8A-60	8" Dia., #60	SPDF-10A-60	10" Dia., #60	SPDF-12A-60	12" Dia., #60
SPDF-8A-120	8" Dia., #120	SPDF-10A-120	10" Dia., #120	SPDF-12A-120	12" Dia., #120
SPDF-8A-220	8" Dia., #220	SPDF-10A-220	10" Dia., #220	SPDF-12A-220	12" Dia., #220
SPDF-8A-400	8" Dia., #400	SPDF-10A-400	10" Dia., #400	SPDF-12A-400	12" Dia., #400
SPDF-8A-600	8" Dia., #600	SPDF-10A-600	10" Dia., #600	SPDF-12A-600	12" Dia., #600
SPDF-8A-800	8" Dia., #800	SPDF-10A-800	10" Dia., #800	SPDF-12A-800	12" Dia., #800
SPDF-8A-1000	8" Dia., #1000	SPDF-10A-1000	10" Dia., #1000	SPDF-12A-1000	12" Dia., #1000
SPDF-8A-1200	8" Dia., #1200	SPDF-10A-1200	10" Dia., #1200	SPDF-12A-1200	12" Dia., #1200
SPDF-8A-1500	8" Dia., #1500	SPDF-10A-1500	10" Dia., #1500	SPDF-12A-1500	12" Dia., #1500
SPDF-8A-2000	8" Dia., #2000	SPDF-10A-2000	10" Dia., #2000	SPDF-12A-2000	12" Dia., #2000

Standard Sandpaper – SPDS Series (DAESUNG) Model

Plane Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
SPDS-8P-60	8" Dia., #60	SPDS-10P-60	10" Dia., #60	SPDS-12P-60	12" Dia., #60
SPDS-8P-120	8" Dia., #120	SPDS-10P-120	10" Dia., #120	SPDS-12P-120	12" Dia., #120
SPDS-8P-220	8" Dia., #220	SPDS-10P-220	10" Dia., #220	SPDS-12P-220	12" Dia., #220
SPDS-8P-400	8" Dia., #400	SPDS-10P-400	10" Dia., #400	SPDS-12P-400	12" Dia., #400
SPDS-8P-600	8" Dia., #600	SPDS-10P-600	10" Dia., #600	SPDS-12P-600	12" Dia., #600
SPDS-8P-800	8" Dia., #800	SPDS-10P-800	10" Dia., #800	SPDS-12P-800	12" Dia., #800
SPDS-8P-1000	8" Dia., #1000	SPDS-10P-1000	10" Dia., #1000	SPDS-12P-1000	12" Dia., #1000
SPDS-8P-1200	8" Dia., #1200	SPDS-10P-1200	10" Dia., #1200	SPDS-12P-1200	12" Dia., #1200
SPDS-8P-1500	8" Dia., #1500	SPDS-10P-1500	10" Dia., #1500	SPDS-12P-1500	12" Dia., #1500
SPDS-8P-2000	8" Dia., #2000	SPDS-10P-2000	10" Dia., #2000	SPDS-12P-2000	12" Dia., #2000

PSA Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
SPDS-8A-60	8" Dia., #60	SPDS-10A-60	10" Dia., #60	SPDS-12A-60	12" Dia., #60
SPDS-8A-120	8" Dia., #120	SPDS-10A-120	10" Dia., #120	SPDS-12A-120	12" Dia., #120
SPDS-8A-220	8" Dia., #220	SPDS-10A-220	10" Dia., #220	SPDS-12A-220	12" Dia., #220
SPDS-8A-400	8" Dia., #400	SPDS-10A-400	10" Dia., #400	SPDS-12A-400	12" Dia., #400
SPDS-8A-600	8" Dia., #600	SPDS-10A-600	10" Dia., #600	SPDS-12A-600	12" Dia., #600
SPDS-8A-800	8" Dia., #800	SPDS-10A-800	10" Dia., #800	SPDS-12A-800	12" Dia., #800
SPDS-8A-1000	8" Dia., #1000	SPDS-10A-1000	10" Dia., #1000	SPDS-12A-1000	12" Dia., #1000
SPDS-8A-1200	8" Dia., #1200	SPDS-10A-1200	10" Dia., #1200	SPDS-12A-1200	12" Dia., #1200
SPDS-8A-1500	8" Dia., #1500	SPDS-10A-1500	10" Dia., #1500	SPDS-12A-1500	12" Dia., #1500
SPDS-8A-2000	8" Dia., #2000	SPDS-10A-2000	10" Dia., #2000	SPDS-12A-2000	12" Dia., #2000

Standard Sandpaper – SPDN Series Model

Plane Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
SPDN-8P-120	8" Dia., #120	SPDN-10P-120	SPDN-10P-120	SPDN-12P-120	SPDN-12P-120
SPDN-8P-220	8" Dia., #220	SPDN-10P-220	SPDN-10P-220	SPDN-12P-220	SPDN-12P-220
SPDN-8P-400	8" Dia., #400	SPDN-10P-400	SPDN-10P-400	SPDN-12P-400	SPDN-12P-400
SPDN-8P-600	8" Dia., #600	SPDN-10P-600	SPDN-10P-600	SPDN-12P-600	SPDN-12P-600
SPDN-8P-800	8" Dia., #800	SPDN-10P-800	SPDN-10P-800	SPDN-12P-800	SPDN-12P-800
SPDN-8P-1000	8" Dia., #1000	SPDN-10P-1000	SPDN-10P-1000	SPDN-12P-1000	SPDN-12P-1000
SPDN-8P-1200	8" Dia., #1200	SPDN-10P-1200	SPDN-10P-1200	SPDN-12P-1200	SPDN-12P-1200
SPDN-8P-1500	8" Dia., #1500	SPDN-10P-1500	SPDN-10P-1500	SPDN-12P-1500	SPDN-12P-1500
SPDN-8P-2000	8" Dia., #2000	SPDN-10P-2000	SPDN-10P-2000	SPDN-12P-2000	SPDN-12P-2000

PSA Back

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
SPDN-8A-120	8" Dia., #120	SPDN-10A-120	10" Dia., #120	SPDN-12A-120	12" Dia., #120
SPDN-8A-220	8" Dia., #220	SPDN-10A-220	10" Dia., #220	SPDN-12A-220	12" Dia., #220
SPDN-8A-400	8" Dia., #400	SPDN-10A-400	10" Dia., #400	SPDN-12A-400	12" Dia., #400
SPDN-8A-600	8" Dia., #600	SPDN-10A-600	10" Dia., #600	SPDN-12A-600	12" Dia., #600
SPDN-8A-800	8" Dia., #800	SPDN-10A-800	10" Dia., #800	SPDN-12A-800	12" Dia., #800
SPDN-8A-1000	8" Dia., #1000	SPDN-10A-1000	10" Dia., #1000	SPDN-12A-1000	12" Dia., #1000
SPDN-8A-1200	8" Dia., #1200	SPDN-10A-1200	10" Dia., #1200	SPDN-12A-1200	12" Dia., #1200
SPDN-8A-1500	8" Dia., #1500	SPDN-10A-1500	10" Dia., #1500	SPDN-12A-1500	12" Dia., #1500
SPDN-8A-2000	8" Dia., #2000	SPDN-10A-2000	10" Dia., #2000	SPDN-12A-2000	12" Dia., #2000

SiC Foil Model

Plane Back – PET Substrate, Gecko type

Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid	Code No.	Description FEPA P Grid
MSPD-8G-60	8" Dia. SiC Foil #60	MSPD-10G-60	10" Dia. SiC Foil #60	MSPD-12G-60	12" Dia. SiC Foil #60
MSPD-8G-120	8" Dia. SiC Foil #120	MSPD-10G-120	10" Dia. SiC Foil #120	MSPD-12G-120	12" Dia. SiC Foil #120
MSPD-8G-240	8" Dia. SiC Foil #240	MSPD-10G-240	10" Dia. SiC Foil #240	MSPD-12G-240	12" Dia. SiC Foil #240
MSPD-8G-400	8" Dia. SiC Foil #400	MSPD-10G-400	10" Dia. SiC Foil #400	MSPD-12G-400	12" Dia. SiC Foil #400
MSPD-8G-600	8" Dia. SiC Foil #600	MSPD-10G-600	10" Dia. SiC Foil #600	MSPD-12G-600	12" Dia. SiC Foil #600
MSPD-8G-800	8" Dia. SiC Foil #800	MSPD-10G-800	10" Dia. SiC Foil #800	MSPD-12G-800	12" Dia. SiC Foil #800
MSPD-8G-1000	8" Dia. SiC Foil #1000	MSPD-10G-1000	10" Dia. SiC Foil #1000	MSPD-12G-1000	12" Dia. SiC Foil #1000
MSPD-8G-1200	8" Dia. SiC Foil #1200	MSPD-10G-1200	10" Dia. SiC Foil #1200	MSPD-12G-1200	12" Dia. SiC Foil #1200
MSPD-8G-1500	8" Dia. SiC Foil #1500	MSPD-10G-1500	10" Dia. SiC Foil #1500	MSPD-12G-1500	12" Dia. SiC Foil #1500
MSPD-8G-2000	8" Dia. SiC Foil #2000	MSPD-10G-2000	10" Dia. SiC Foil #2000	MSPD-12G-2000	12" Dia. SiC Foil #2000
MSPD-8G-2400	8" Dia. SiC Foil #2400	MSPD-10G-2400	10" Dia. SiC Foil #2400	MSPD-12G-2400	12" Dia. SiC Foil #2400

Attachment 방법

Grinding 또는 Polishing Disc에 Sand Paper나 Polishing Cloth를 설치하는 방법
 지난 수십년 동안 다양한 방법들이 개발되었으나 최근 아래 방법 선호

- Sand paper
 - Plane back type을 Gecko II 같은 접착제가 Coating된 Plate에 장착
 - SIC Foil을 Gecko I과 같은 자가 접착 Plate에 사용
- Polishing cloth: Magnetic Disc에 사용하는 SUS Plate backing type이 대세

초기에는 고정 Ring을 이용하여 설치하였으나 고정 Ring 탈/부착이 번거로운 단점
 이 단점을 보완하기 위하여 뒷면에 접착제를 바른 PSA(Pressure Sensitive Adhesive) Type이
 개발되어 고정 Ring 사용의 단점을 보완하였으나 Disc로부터 Paper나 Cloth의 제거가 어렵고 Disc에
 접착제 찌꺼기가 남는 단점이 상존

이 후 Magnetic Type이 개발되어 접착제 단점을 보완하였으나 Paper나 Cloth 뒷면에 자석에 붙는
 Steel이나 고무자석 처리가 되어야 하는 경제적인 문제가 대두
 근년에 들어 상기 모든 단점을 보완하기 위한 방법으로 자가 흡착 기능을 가지는 Disc가 개발되어
 매끈한 면을 가지는 모든 Paper나 Cloth의 탈/부착이 용이

Fixation Method 종류

I. 고정 Ring

가장 고전적인 방법으로 뒷면 처리가 안된 Plain Back Paper나 Cloth를 고정용 Ring을 사용하여
 Disc에 장착하는 방법으로 탈/부착이 번거로우며 자동 Grinder/Polisher 사용에 제약
 Paper나 Cloth가 균일하게 Disc에 접촉되지 않는 경우가 발생하며 사용 후 건조에 따른 뒤틀림
 현상 발생

Paper나 Cloth 교체 시 고정 Ring을 세척하여야 연마재 혼입을 막을 수 있다
 가장 경제적인 방법이나 많은 단점

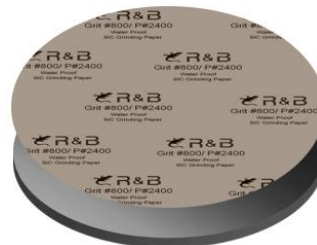
- Fixation Ring
- Plain Sand Paper or Polishing Cloth
- Grinding/Polishing Disc



II. PSA (Pressure Sensitive Adhesive)

Sand Paper나 Polishing Cloth 뒷면에 접착제를 Coating 하는 방법으로 고정 Ring 단점 보완.
 균일 접촉을 보장하며 건조에 따른 뒤틀림도 개선
 사용 후 Paper나 Cloth 제거가 불편하며 접착제 찌꺼기가 Disc에 남는 단점
 접착제 도포에 따라 가격 상승

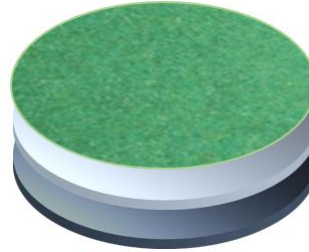
- Sand Paper or Polishing Cloth
with PSA Back
- Grinding/Polishing Disc



III. Magnetic 방법

자력을 이용하여 Paper나 Cloth를 Disc에 장착하는 방법으로 PSA 단점을 보완
 자력을 가진 Rubber Disc (Magnetic Fixation Disc)를 붙인 Magnetic Disc 사용
 교환에 따른 시간 절약과 균일한 접촉면을 유지하며 용이하게 탈 부착
 건조 후 뒤틀림 현상이 배제되어 수명이 다할 때까지 정상적으로 사용
 Paper나 Cloth 뒷면에 자석에 붙는 처리를 하여야 하며 얇은 Stainless Plate나 얇은 고무자석
 Plate (MD FUGO) 사용
 사용 상 편리하지만 Paper나 Cloth 뒷면에 자석에 붙는 처리 비용 증가.

- Sand Paper or Polishing Cloth
With SUS Plate
- Magnetic Rubber Plate
- Grinding/Polishing Disc



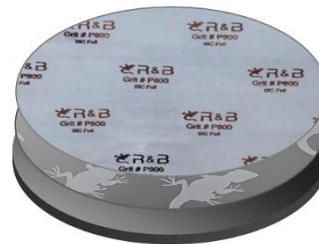
IV. Gecko Plate 방법

모든 단점을 제거한 최근의 방법으로 경제적이면서도 실용적인 방법

Gecko I Plate

자가 흡착구조를 가지는 Plate (Gecko I Plate)사용
 SiC Foil을 사용하며 오염이 되면 흐르는 물로 세척하여 점착력 유지

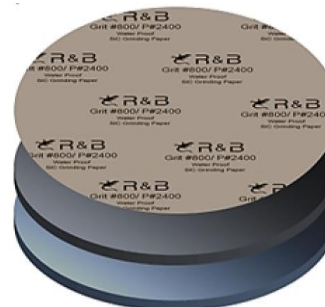
- SiC Foil
- Gecko I Plate with PSA or MD for Disc
- Grinding/Polishing Disc



Gecko II Plate

Plane back Sand paper를 PSA Sand paper처럼 사용 가능한 점착제가 Coating된 Plate로
 오염이 되면 흐르는 물로 세척하는 과정으로 원상태를 유지

- Sand paper with plane back
- Gecko II Plate
- Grinding/Polishing Disc



Sandpaper Numbering 방법

연마재 크기를 나타내는 방법으로 여러 방법 사용

보편적으로 사용하는 방법은 FEPA P Grade 및 ANSI Standard Grit.

대표적인 분류법

- ANSI (American National Standard Institute – 1956) 미국
- CAMI (Coated Abrasive Manufacturer's Institute) 미국
- FEPA (Federation of European Producers of Abrasive Products – late 60's) 유럽
 - P grade – Coating (Sand paper)
 - F grade – Grain
- JIS (Japanese Industrial Standard – Mid-70's) 일본
- Micron Particle-Size Grading 일반
- TRIZACT™ Grading – 3M

Particle Size Conversion Table

Comparison on P Grade & ANSI Grade

FEPA P Grade	ANSI Standard Grid	Micron, μm
60	60	269.0
120	120	125.0
220	220	68.0
400		35.0
600	400	25.8
800		21.8
1000	500	18.3
1200	600	15.3
1500		12.6
2000		10.3
2400	800	6.5
4000	1200	2.5



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