The Complete Cabinetry & Millwork Solution

Hermes High-Performance Abrasives for Woodworking







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Hermes — for an excellent finish all

AT HERMES, TRADITION HAS A FUTURE

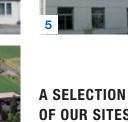
ermes Schleifmittel is a Hamburg company in the true tradition, with roots going back to 1927. The company is not only one of the world's key manufacturers of coated abrasives – since 1993, it has also occupied a leading market position in the production of precision bonded abrasives.

Hermes owes this market position to its insistence on unsurpassed quality. We feel an obligation to this tradition and it is our main priority for the future. This obligation is the greatest incentive there is, and we devote all our energy and commitment to it — tradition shaping the future.

Hermes maintains numerous production sites and sales offices in all the main industrial and emerging nations of the world, underlining its international commitment and its efforts to provide its customers with a competent local consulting service.











- 1 | Headquarters Hamburg, Germany
- 2 | Hermes Austria
- 3 | Hermes Poland
- 4 | Hermes USA
- 5 | Hermes China



over the world

SUPPORTING NATURE AND THE ENVIRONMENT

ompliance with national and international laws and regulations is one of the key principles of Hermes corporate policy and protection of the environment is a core constituent of our corporate responsibility.

As a consequence, as long ago as 1996, Hermes was the first European abrasives factory to be successfully audited on a voluntary basis in line with the EMAS (Eco-Management and Audit Scheme).

The management system currently being implemented covers all areas of the company, with processes relevant to the environment and energy, as well as to quality, being described and monitored internally as well as certified externally by the TÜV-Nord organization in line with DIN EN ISO 14001: 2009.



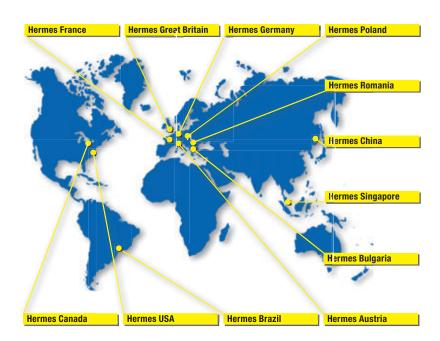
QUALITY - OUR TRADEMARK

Dound to tradition on the one hand, yet a pioneering developer of innovative products on the other, Hermes places greatest emphasis on the production of high-quality, state-of-the-art abrasives.

To enable this high standard of quality to be pursued and expanded still further in the future, the TÜV NORD CERT auditing company awarded the Hermes Group the quality seal for meeting the requirements of DIN EN ISO standard 9001.

Our customers – in other words you – benefit considerably from this reliability.







Calibrating

Planing wood down to a rough dimension

OOO Premium



RB 484 44 Z

RB 484 44 Z (CODE 48444)

Abrasive grain

Backing

Z-cloth

Coating

Open

Grit range

24 - 80

Delivery form

Wide belts up to 64" width

PRODUCT BENEFITS

- Agressive and high grinding performance through novel mixtured zirconia alumina grain
- Highly tear-resistant polyester backing with low elongation provides high belt stability

OO Performance



RB 316 36 Z op

RB 316 36 Z OP (CODE 31636)

Abrasive grain Aluminum oxide Bonding Resin, antistatic
Backing Z-cloth Coating open
Grit range 60 - 80 Delivery form Wide belts up to 54" width

PRODUCT BENEFITS

- High stock removal rates for long belt life
- · Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- Open coat resists premature loading

Standard



RB 316 33 X op

RB 316 33 X OP (CODE 31633)

Abrasive grain Aluminum oxide Bonding Resin, antistatic
Backing X-cloth Coating open
Grit range 36, 50 - 80 Delivery form Wide belts up to 52" width

- · High stock removal rates for long belt life
- Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- · Open coat resists premature loading

Cloth Intermediate and Finishing Sanding

Final wide belt sanding prior to application to finish

OOO Premium

RB 316 36 Z OP (CODE 31636)

Aluminum oxide Bonding Abrasive grain Backing **Z-cloth** Coating

80 - 180 Grit range Delivery form

RB 316 36 Z op

PRODUCT BENEFITS

- · High stock removal rates for long belt life
- · Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- Open coat resists premature loading

○○ Performance

RB 377 YX (CODE 37710)

Abrasive grain **Aluminum oxide** Bonding Resin Backing YX-cloth Coating closed Grit range

80 - 220 Delivery form



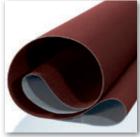
Resin, antistatic

Wide belts up to 54" width

open

PRODUCT BENEFITS

- Special aluminum oxide grain mix provides high stock removal rates in the coarse grit range
- · Very constant surface quality in the fine grit range
- Polyester/cotton cloth backing ensures smooth running for belts and wide belts



RB 377 YX

Standard

RB 316 33 X OP (CODE 31633)

Abrasive grain **Aluminum oxide** Bonding Resin, antistatic Backing X-cloth Coating open Grit range 80 - 220 Delivery form Wide belts up to 52" width



RB 316 33 X op

- High stock removal rates for long belt life
- · Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- · Open coat resists premature loading



Paper Intermediate and Finish Sanding

Final wide belt sanding prior to application of finish

OOO Premium



CERAMIT® CR 116

CERAMIT® CR 116 (CODE 11623)

Abrasive grain Ceramic Bonding Resin, antistatic
Backing F-weight paper Coating semi-open

Grit range 80 - 180 Delivery form Wide belts up to 62" width

PRODUCT BENEFITS

- · High stock removal rates and very long tool life especially on hard wood
- Low sanding temperatures

OO Performance



CB 115

CB 115 (CODE 11523)

Abrasive grain

Backing

F-weight paper

Grit range

Aluminum oxide

F-weight paper

Bonding

Coating

Semi-open

Wide belts
up to 54" width

PRODUCT BENEFITS

- · High stock removal rates for long belt life
- Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- Open coat resists premature loading

Standard



BW 114

BW 114 (CODE 11400)

Abrasive grain

Backing

F-weight paper

Grit range

Aluminum oxide

Bonding

Coating

Open

Wide belts

up to 64" width

- · Very high stock removal rates, especially on softwood.
- Open coating and antistatic structure reduces loading with sanding dust, especially with resinous materials
- Stable and tear-resistant F-weight paper backing allows sanding with high sanding pressure

COO Finish

BS 118 (CODE 11800)

Silicon carbide Bonding Resin, antistatic Abrasive grain Backing F-weight paper Coating closed 180 - 1200 Grit range Delivery form



Wide belts up to 64" width



- Very hard silicon carbide abrasive grain
- · Stable F-weight paper backing with a good edge stability
- · Very fine surface pattern



BS 118

○○ Finish

BW 115 (CODE 11500)

Abrasive grain **Aluminum oxide** Bonding Resin Backing F-weight paper Coating closed 80 - 320 Grit range Delivery form Wide belts



up to 64" width

PRODUCT BENEFITS

- Closed coating for long tool life
- Stable, tear-resistant F-weight paper backing allows sanding with high sanding pressure



BW 115

Price Point

BW 110 (CODE 11000)

Aluminum oxide Abrasive grain Bonding Resin, antistatic Backing E-weight paper Coating semi-open Grit range 80 - 220 Delivery form Wide belts up to 62" width

- Antistatic and semi-open structure reduces the risk of loading
- · Good stock removal rate even at low sanding pressure
- · Stable and flexible E-weight paper backing
- Good sanding pattern
- · Economical sanding of all types of wood



BW 110



Paper Stroke Sanding

Hand Block, Hand Lever, Auto., & Auto Feed Through

OOO Premium



CERAMIT® CR 116

CERAMIT® CR 116 (CODE 11623)

Abrasive grain

Ceramic

Backing

F-weight paper

Grit range

Ceramic

Bonding

Resin, antistatic

Semi-open

Delivery form

PRODUCT BENEFITS

- · High stock removal rates and very long tool life especially on hard wood
- · Low sanding temperatures

OO Performance



CB 115

CB 115 (CODE 11523)

Abrasive grain Aluminum oxide Bonding Resin, antistatic
Backing F-weight paper Coating semi-open
Grit range 80 - 240 Delivery form

PRODUCT BENEFITS

- High stock removal rates for long belt life
- · Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- · Open coat resists premature loading

Standard



BW 114

BW 114 (CODE 11400)

Abrasive grain Aluminum oxide Bonding Resin, antistatic
Backing F-weight paper Coating open
Grit range 80 - 400 Delivery form

PRODUCT BENEFITS

- Very high stock removal rates, especially on softwood.
- Open coating and antistatic structure reduces loading with sanding dust, especially with resinous materials
- Stable and tear-resistant F-weight paper backing allows sanding with high sanding pressure

COO Finish

BS 118 (CODE 11800)

Abrasive grain

Silicon carbide

Backing

F-weight paper

Grit range

Silicon carbide

Bonding

Resin, antistatic

Coating

Closed

Delivery form

- Very hard silicon carbide abrasive grain
- · Stable F-weight paper backing with a good edge stability
- Very fine surface pattern



BS 118

Cloth Stroke Sanding

Hand Block, Hand Lever, Auto., & Auto Feed Through (For both flat & profile work)

OOO Premium

RB 316 36 Z OP (CODE 31636)

Abrasive grain Aluminum oxide Bonding Resin, antistatic
Backing Z-cloth Coating open
Grit range 80 - 180 Delivery form



RB 316 36 Z op

PRODUCT BENEFITS

- · High stock removal rates for long belt life
- Consistent surface finishes for the life of the belt
- · Improved dust control in the work area
- Open coat resists premature loading

OO Performance

RB 316 33 X OP (CODE 31633)

Abrasive grain

Backing

Aluminum oxide

Bonding

Coating

Open

Grit range

Bonding

Coating

Open

Delivery form



RB 316 33 X op

PRODUCT BENEFITS

- High stock removal rates for long belt life
- · Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- · Open coat resists premature loading

Standard

RB 304 J-FLEX (CODE 30480)

Abrasive grain

Backing

J-cloth

Grit range

Aluminum oxide

Bonding

Coating

Open

Delivery form



RB 304 J-flex

- Highly flexible abrasive cloth with excellent conformability for profiles
- · Open coating means less clogging
- · Reduced heat generation
- Antistatic
- · Improved stock removal



Edge Sanding

Side Stroke Sanders

OOO Premium



RB 316 36 Z op

RB 316 36 Z OP (CODE 31636)

Abrasive grain

Aluminum oxide

Backing

Z-cloth

Coating

Open

Grit range

60 - 180

Bonding

Resin, antistatic

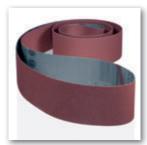
open

Delivery form

PRODUCT BENEFITS

- High stock removal rates for long belt life
- · Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- Open coat resists premature loading

OO Performance



RB 377 YX

RB 377 YX (CODE 37710)

Abrasive grain Aluminum oxide Bonding Resin
Backing YX-cloth Coating closed
Grit range 60 - 220 Delivery form

PRODUCT BENEFITS

- Special aluminum oxide grain mix provides high stock removal rates in the coarse grit range
- Very constant surface quality in the fine grit range
- · Polyester/cotton cloth backing ensures smooth running for belts and wide belts

Standard



RB 316 33 X op

RB 316 33 X OP (CODE 31633)

Abrasive grain Aluminum oxide Bonding Resin, antistatic
Backing X-cloth Coating open
Grit range 60 - 220 Delivery form

- · High stock removal rates for long belt life
- Consistent surface finishes for the life of the belt
- Improved dust control in the work area
- Open coat resists premature loading

Edge Sanding

Dead Head or Noseblock

OOO Premium

RB 304 J-FLEX (CODE 30480)

Abrasive grain Aluminum oxide Bonding Resin, antistatic Backing J-cloth Coating open Grit range 80 - 150 Delivery form



PRODUCT BENEFITS

- Highly flexible abrasive cloth with excellent conformability for profiles
- · Open coating means less clogging
- Reduced heat generation
- Antistatic
- Improved stock removal

OO Performance

RB 306 J-FLEX (CODE 30660)

Abrasive grain **Aluminum oxide** Bonding Resin Backing J-cloth Coating closed Grit range 60 - 180 Delivery form



RB 306 J-flex

RB 304 J-flex

PRODUCT BENEFITS

- Highly flexible J-flex cotton cloth
- · Highly adaptable to contours and radii
- · Good stock removal rate
- · Very good grit adhesion

Standard

RB 346 J-FLEX (CODE 34660)

Abrasive grain Aluminum oxide Bonding Resin Backing J-cloth Coating closed 60 - 180 Grit range Delivery form



PRODUCT BENEFITS

- Excellent adaptability to contoured workpieces and radii
- Suitable for intricate profiles and small radii.
- · The high strength bonding system prevents a premature abrasive grain shedding
- · Improved abrasive life
- · High stock removal rates

Alternate

RB 346 X-FLEX (CODE 34670)

Abrasive grain Aluminum oxide Bonding Resin Backing X-cloth Coating closed 60 - 180 Grit range Delivery form



- · Excellent adaptability to contoured workpieces and radii
- Suitable for intricate profiles and small radii.
- . The high strength bonding system prevents a premature abrasive grain shedding
- · Improved abrasive life
- High stock removal rates



RB 346 J-flex



RB 346 X-flex



Mold Sanding

Shape Sanding

OOO Premium



RB 304 J-flex

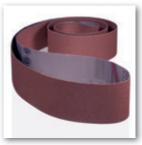
RB 304 J-FLEX (CODE 30480)

Aluminum oxide Bonding Resin, antistatic Abrasive grain Backing J-cloth Coating open 80 - 180 Grit range Delivery form

PRODUCT BENEFITS

- · Highly flexible abrasive cloth with excellent conformability for profiles
- · Open coating means less clogging
- · Reduced heat generation
- Antistatic
- · Improved stock removal

OO Performance



RB 346 X-flex

RB 346 X-FLEX (CODE 34670)

Aluminum oxide Abrasive grain Bonding Resin Backing X-cloth closed Coating Grit range 60 - 180 Delivery form

PRODUCT BENEFITS

- Excellent adaptability to contoured workpieces and radii
- Suitable for intricate profiles and small radii.
- The high strength bonding system prevents a premature abrasive grain shedding
- · Improved abrasive life
- · High stock removal rates

Standard



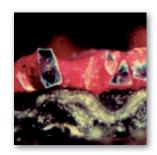
RB 346 J-flex

RB 346 J-FLEX (CODE 34660)

Aluminum oxide Abrasive grain Bonding Resin Backing J-cloth Coating closed 60 - 180 Grit range Delivery form

- · Excellent adaptability to contoured workpieces and radii
- Suitable for intricate profiles and small radii.
- The high strength bonding system prevents a premature abrasive grain shedding
- Improved abrasive life
- · High stock removal rates

Technical Information

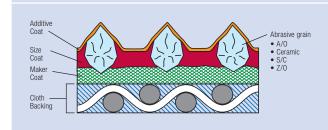


PRINCIPLE CONSTRUCTION OF COATED ABRASIVES

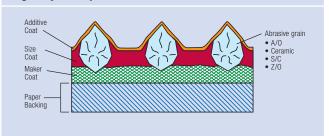
Basically, coated abrasives consist of abrasive grains anchored to a backing material by a coating of adhesive. These 3 components in their variations may be combined to create an unlimited number and range of different products.

The following information, charts and graphics will give you a better understanding of the construction of our products.

Single Layer - Cloth



Single Layer - Paper



ABRASIVE GRAINS AND GRAIN STANDARDS

Abrasive Grain

- A/O Aluminum Oxide
- S/C Silicon Carbide
- Z/O Zirconia Alumina
- Ceramic
- Garnet

Grain Standards

- P = FEPA DIN 69 176
- # = ANSI B74.18-1984
- + = Hermes-Standard

GRIT SIZE COMPARISON (ABRASIVE PAPER, FILM, CLOTH, STITCH BONDED CLOTH AND FIBER) d_{k 50} (µm) average 750 630 525 400 325 260 200 160 125 93 grain diameter FEPA 43-D-1984 R 1993 DIN ISO 6344 P 24 P 30 P 36 P 40 P 50 P 60 P 80 P 120 P 320 ANSI B 74.18-1996 150 280 500 600 80 The differences of the respective grit size standards are defined in the relevant test standards.



All at a glance — Hermes high-performance abrasiv

			Paper-back	ed wide belts		
Type / Application	BW 110	BW 114	BW 115	CB 115	CERAMIT® CR 116	
Grain	Aluminum oxide	Aluminum oxide	Aluminum oxide	Aluminum oxide	Ceramic	
Bonding	Resin, antistatic	Resin, antistatic	Resin	Resin, antistatic	Resin, antistatic	
Backing	E-weight paper	F-weight paper	F-weight paper	F-weight paper	F-weight paper	
Coating	semi-open	open	closed	open	closed	
Grit Range	24, 36 - 220, 400	40 - 800	40 - 320, 400	80 - 220	60 - 180, 240	
	Pa	per-backed narrow be	elts			
Type / Application	BW 114	CB 115	BS 118	RB 316 33 X op	RB 316 36 Z op	
Grain	Aluminum oxide	Aluminum oxide	Silicon carbide	Aluminum oxide	Aluminum oxide	
Bonding	Resin, antistatic	Resin, antistatic	Resin, antistatic	Resin, antistatic	Resin, antistatic	
Backing	F-weight paper	F-weight paper	F-weight paper	X-weight cloth	Z-weight cloth	
Coating	open	open	closed	open	open	
Grit Range 40 - 800		80 - 220 16, 24, 36 - 1200		36, 50 - 220	60 - 180	
		Paper-backed discs		Cloth-backed discs	Film-backed disc	
Type / Application VC 151-Longlife VEL		VC 152 SK	VC 154-Longlife VEL	RB 306 J-flex VEL	Brilliance Film FC 164-Longlife VEL	
Grain	Aluminum oxide	Aluminum oxide	Aluminum oxide	Aluminum oxide	Aluminum oxide	
Bonding	Resin, Prolub	Resin, Prolub	Resin, Prolub	Resin	Resin with additives	
Backing	C-weight paper	D-/C-weight paper	Flexible B-weight paper	J-flex weight cloth	Film	
Coating	open	open	closed	closed	semi-open	
Grit Range	60 -240, 320 - 500	40, 60 - 240	80 -1500	120	600 - 2000	

		Accessories						
Type / Application		9	0	(*)				
	Back up pad - SK Hermes code: 90222	Back up pad - VEL Hermes code: 90282	Back up pad - VEL Hermes code: 90292	Hand pad - VEL Hermes code: 90339	Hand block - VEL Hermes code: 90349			
Backing	Fiberglass plate	Fiberglass plate	Fiberglass plate	1/8" foam	n/a			
Profile	regular	thin	thin	thin	wedge shaped			
Format	no holes	no holes	Multihole	no holes	n/a			
Density	medium	hard	hard	flexible	hard			
Thread	⁵ / ₁₆ " x 24	⁵ / ₁₆ " x 24	⁵ / ₁₆ " x 24	n/a	n/a			

es for woodworking

	Cloth-backed wide belts					
BS 118	RB 316 33 X op	RB 316 36 Z op	RB 377 YX	RB 484 44 Z		
Silicon carbide	Aluminum oxide	Aluminum oxide	Aluminum oxide	Zirconia alumina		
Resin, antistatic	Resin, antistatic	Resin, antistatic	Resin	Resin		
F-weight paper	X-weight cloth	Z-weight cloth	Cotton/Polyester blend	Z-weight cloth		
closed	open	open	closed	closed		
16, 24, 36 - 1200	36, 50 - 220	60 - 180	36, 40, 60 - 320, 400, 500	24, 36 - 120		

h-backed narrow belts







RB 346 J-flex Aluminum oxide Resin J-flex weight cloth open

40 - 400, 600



RB 346 X-flex Aluminum oxide Resin X-flex weight cloth closed 60 - 320, 400

Paper-backed sheets



VC 152 Aluminum oxide Resin, Prolub D-/C-weight paper open



SF 168



Aluminum oxide
Resin, Prolub
B-weight paper
open
80 - 320, 400, 500



(6" x 9")
Aluminum oxide
Resin
Non-woven abrasive web
open
120, 180, 280, 360

webrax-OA 708

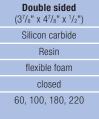


Single sided

(4¹/₂" x 5¹/₂" x ³/₁₆") Aluminum oxide Resin open structured foam closed 60, 100, 150, 180, 220, 280, 400, 600









Four sided (23/4" x 4" x 1") Aluminum oxide Resin hard foam closed 60, 100, 150, 180, 220



40, 60 - 320, 400

Hand block - VEL Hermes code: 90349 rectangle n/a hard n/a



Disc Sanding

Wood in white and Sealer

OOO Premium



VC 152

VC 152 SK (CODE 15205)

Bonding Abrasive grain **Aluminum oxide** Coating Backing

D-/C-weight paper, self-stick

40, 60 - 240 Grit range

PRODUCT BENEFITS

- Sharp Aluminum oxide grain and open coating mean high stock removal rates
- Low loading characteristics
- Materials have very good surface quality
- Flexible paper backing
- Good price/performance ratio

Velcro





VC 151-LONGLIFE VEL / MULTIHOLE (CODES 15177/15179) **Aluminum oxide** Resin, coated with additives Abrasive grain Bonding

C-weight paper, Backing Coating open

60 - 240, 320 - 500 Grit range

velour-backed

velour-backed

PRODUCT BENEFITS

- Low clogging with sanding dust due to semi-open coating and additional coating with additives
- Flexible, strong paper guarantees very good adaptability when grinding contours and curved surfaces

Resin

open



VC 151-Longlife VEL / MULTIHOLE



VC 154-Longlife VEL / MULTIHOLE

VC 154-LONGLIFE VEL / MULTIHOLE (CODES 15477/15479)

Abrasive grain Aluminum oxide Resin, coated with additives Bonding

Backing B-weight paper, Coating semi-open

Grit range 80 - 1500

- Flexible, wear-resitant Latex paper backing assures very good adaptations to contours
- Low clogging with sanding dust due to semi-open coating and additional coating with additives
- Consistent stock removal rates and consistent roughness values during the whole sanding process

○○○ Premium Film (Velcro)

BRILLIANCE FILM FC 164-LONGLIFE VEL (CODE 16477)

Abrasive grain Aluminum oxide Bonding Resin, coated with additives

Backing Abrasive film, velour-backed Coating semi-open

Grit range **240 - 2000**

PRODUCT BENEFITS

- The new film backing combines the advantages of cloth (high edge stability & tear resistance) and paper (high flexibility and low weight). And it allows a uniform grain orientation, which leads to perfect surfaces
- The semi-open coating and the optimized longlife coating prevent premature clogging and thus guarantee a long life.
- In addition, semi-open coating provides constant removal rates
- High flatness ensures good running properties and safe automated wheel replacement on robot grinding systems
- For quick identification, the grit size can be read on the grain side



Brilliance Film FC 164-Longlife, velour-backed

Cloth

RB 306 J-FLEX SK / VEL (CODES 30665/30667)

Abrasive grain

Backing

J-flex cloth

Coating

Closed

Grit range

Self-stick: 120 - 220 / velour-backed: 120, 180

PRODUCT BENEFITS

- Highly flexible J-flex cotton cloth
- Highly adaptable to contours and radii
- · Good stock removal rate
- Very good grit adhesion



RB 306 J-flex

Finish

SF 168 SK (CODE 16815)

Abrasive grain Silicon carbide Bonding Resin, coated with additives
Backing B-weight paper, Coating open

self-stick

Grit range **60 - 320, 400**



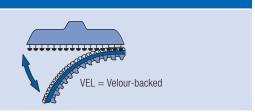
SF 168, self-stick

PRODUCT BENEFITS

- · Highly flexible adaptable paper
- · Longlife coating means increased tool life
- Good sanding result on transparent lacquer systems
- Especially good results on lacquer intermediate sanding
- Open coating prevents premature loading with sanding dust

CLOTH AND PAPER DISC BACKING ATTACHMENT SYSTEMS







Hand Sanding

Wood in white and Sealer

Light Paper



SF 168

SF 168 (CODE 16810)

Bonding Resin, coated with additives Abrasive grain Silicon carbide

B-weight paper Coating Backing open

80, 120 - 320, 400, 500 Grit range

PRODUCT BENEFITS

- · Highly flexible adaptable paper
- · Longlife coating means increased tool life
- Good sanding result on transparent lacquer systems
- · Especially good results on lacquer intermediate sanding
- · Open coating prevents premature loading with sanding dust

Heavy Paper



VC 152

VC 152 (CODE 15200)

Abrasive grain **Aluminum oxide** Bonding Resin Backing D-/C-weight paper Coating open

Grit range 40, 60 - 320, 400

PRODUCT BENEFITS

- Sharp Aluminum oxide grain and open coating mean high stock removal rates
- Low loading characteristics
- Materials have very good surface quality
- · Flexible paper backing
- Good price/performance ratio

VC 151-Longlife VEL

VC 151-LONGLIFE VEL (CODE 15177)

velour-backed

Abrasive grain **Aluminum oxide** Bonding Resin, coated with additives Backing

C-weight paper, Coating open

80 - 240, 320 - 500 Grit range Size 2 5/8" x 5 3/8" for VEL (hand block)

PRODUCT BENEFITS

- Low clogging with sanding dust due to semi-open coating and additional coating with additives
- Flexible, strong paper guarantees very good adaptability when grinding contours and curved surfaces

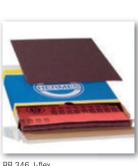
Cloth

RB 346 J-FLEX (CODE 34660)

Abrasive grain **Aluminum oxide** Bonding Resin Backing J-cloth Coating closed

Grit range 40 - 400, 600

- Excellent adaptability to contoured workpieces and intricate profiles and small radii
- The high strength bonding system prevents a premature abrasive grain shedding
- Improved abrasive life
- · High stock removal rates



RB 346 J-flex

Sponges

Wood in white and Sealer

Single-Sided

MEDIUM, SINGLE-SIDED (CODE 90358)

Abrasive grain
Backing

Aluminum oxide PU foam light grey, Grit range

60, 100, 150 - 220, 280, 400, 600

dense and semi-flexible

- · Fine sanding of wood in preparation for staining and lacquering
- · Can be used wet or dry

PRODUCT BENEFITS

· For flat and slightly shaped workpieces



Medium, single-sided

O Double-Sided

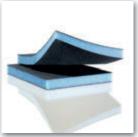
PREMIUM, DOUBLE-SIDED (CODE 90550)

Abrasive grain Silicon carbide Grit range 60, 100, 180, 220

Backing PU foam blue, flexible

PRODUCT BENEFITS

- Fine sanding of wood in preparation for staining and lacquering
- Intermediate sanding of primers and lacquers
- · Can be used wet or dry
- For highly profiled and contoured workpieces



Premium, double-sided

Block

SANDING SPONGE, FOUR-SIDED (CODE 90351)

Abrasive grain Aluminum oxide Grit range 36, 60, 100, 180, 220

Backing PU foam grey, dense and hard

- Fine sanding of wood in preparation for staining and lacquering
- Can be used wet or dry
- For slightly shaped workpieces and mitres



Sanding sponge, four-sided



Accessories



SK-Backup pad

Backup pads

SK-BACKUP PAD (CODE 90222)

Dimension 5"

Description Without holes, tapered edge,

medium density

PRODUCT BENEFITS

- Formed out of polyurethane
- High edge stability
- For self-stick discs, punched and without holes



VEL-Backup pad

VEL-BACKUP PAD (CODE 90282)

Dimension 5'

Description Without holes, tapered edge,

thin, hard density

PRODUCT BENEFITS

- Formed out of polyurethane
- High edge stability
- For velour-backed discs, punched and without holes



VEL-Backing pad MULTIHOLE, hard

VEL-BACKUP PAD MULTIHOLE (CODE 90292)

Dimension 5" and 6"

Description **MULTIHOLE, tapered edge,**

thin, hard density

PRODUCT BENEFITS

- Formed out of polyurethane
- High edge stability
- The use of MULTIHOLE discs (5" and 6") assures an ideal dust extraction



Graphite roll GL 580

GRAPHITE ROLLS FOR MACHINES WITH CONTACT BARS

Types **GL 580 / 581**

Dimension -

- GL 580 Granular construction for paper and cloth belt applications
- GL 581 Flake construction for cloth belt applications

Hand Pads / Blocks

VEL-HAND HELD BACKUP PAD (CODE 90339)

Dimension 5" without holes, 1/8" thin

Description firm foam

PRODUCT BENEFITS

- Flexible handpad, 1/8" thin
- With loop for manual sanding using velour-backed discs



VEL-Hand held backing pad with loop

VEL-HAND BLOCK "ERGONOMIC PALM SANDER" (CODE 90349)

Dimension 5" x 3"

Description Wedge Shape

PRODUCT BENEFITS

- Made of polyurethane
- 5" velour-backed discs suitable for random orbital sanders can be used



VEL-Hand block "Ergonomic palm sander"

VEL-HAND BLOCK (CODE 90349)

Dimension 2 5/8" x 5 3/8"

Description Rectangle

PRODUCT BENEFITS

• For ideal sanding with Hermes velour-backed sheets



VEL-Hand block

VEL-HAND BLOCK SADDLEHORN (CODE 90348)

Dimension **5"**Description **Round**

- Made of polyurethane
- 5" velour-backed discs suitable for random orbital sanders can be used



VEL-Hand block Saddlehorn





Application Notes

Wide Belt Troubleshooting Guide, Sanding Tips, Wide Belt Set-Ups and Cut Guidelines

WIDE BELT TROUBLESHOOTING GUIDE						
PROBLEM		PROBABLE CAUSES	PROBLEM	PROBABLE CAUSES		
Problems	with Wor	k Piece Quality	Problems with Belt Life			
Chatter		Belt splice incorrect or defective Contact drum out of round Loose or worn stiff drive belts Excessive dust build-up behind belts Irregular tracking Excessive sanding pressure Worn bearings in some rotating member	Belt Tracking Off	Contact element & idler not parallel Low belt tension Tracking mechanism not adjusted properly Damaged edge or cone shaped belt Sanding pressure too high		
Poor Tolerance		 Drum or platen alignment Worn feed belt Hold down rolls or shoes out of alignment 		 Belt creased or damaged in handling Uneven sanding pressure Incorrect joint or belt mounted in wrong direction Belt tension too low Dumbbell shaped drum or idler roll 		
Streaking	Follows belt tracking	Fasteners or trash in board damaged belt Grit carryover from previous belt Improper workpiece feeding Insufficient belt tension	Belt Creasing	Incorrect belt geometry Low belt tension Dumbbell shaped drum or idler roll		
	Straight line marks	Drum worn, grooved or build-up Platen covering or cushion damaged Hold down shoes damaged	Poor Belt Life	Improper product, grit, or joint for application Improper storage conditions for belts		
Deep Scratches		Not removing previous grit scratches Carryover of swarf between adjacent heads		Dust collection restricted or inadequate		
Edges Rounded Over		Drum and/or platen too high or low Infeed or outfeed rolls/shoes too high				

SANDING TIPS

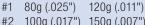
- 1. Hang belts prior to use and store them off the floor
- 2. Use coarsest grit size to do the job properly
- 3. Follow stock removal guidelines set up by the manufacturer
- 4. Load workpieces evenly across feed belt
- 5. Finish head should only remove pencil mark
- 6. Check platens and recover regularly

- 7. Use low angle inspection lights at the outfeed
- 8. Check dust hoods regularly to ensure open air flow
- 9. Load overlap jointed belts in correct direction
- 10. Use paper vs. cloth belts whenever possible
- 11. Tape jointed belts may be reversed to extend life

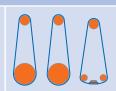
TYPICAL WIDE BELT SET-UPS

APPROXIMATE STOCK REMOVAL CAPABILITIES AT 25 FPM **THREE EXAMPLES FOR EACH MACHINE TYPE





#2 100g (.017") 150g (.007") #3 120g (.011") 180g (.005")



#1 80g (.025") 120g (.011") 180g (.005") #2 100g (.017") 150g (.007") 180g (.005")

#3 120g (.011") 180g (.005") 220g (.003")



180g (.005") #1 100g (.017") 120g (.011") 150g (.007") 220g (.003") #2 100g (.017") 150g (.007") 180g (.005)

#3 120g (.011") 150g (.007") 180g (.005") 220g (.003")



220g (.003") 100g (.017") 120g (.011") 180g (.005") 220g (.003") #2 120g (.011") 150g (.007") 180g (.005") #3 100g (.017") 150g (.007") 180g (.005") 220g (.003")

STOCK REMOVAL AND DEPTH OF CUT GUIDELINES FOR WIDE BELT MACHINES (APPROXIMATE)

AVERAGE ABRASIVE BELT STOCK REMOVAL AT NORMAL **FURNITURE / CABINET**

AVERAGE DEPTH OF SCRATCH LEFT BY A PARTICULAR GRIT ABRASIVE BELT

OPERATING SPEEDS							
Grit	Depth of Cut	Grit	Depth of Scratch	Example			
60 80 100 120 150 180 220	.035"040" .020"030" .015"020" .010"013" .006"009" .004"006" .002"004"	36 60 80 100 120 150 180 220	.028"030" .025"022" .015"018" .010"012" .008"010" .005"006" .004" - 005" .003"004"		100g	120g	180g
				Stock Removal Depth of Scratch	.018" .011"	.010" .009"	.003" .003"





Application Notes

Orbital Sanding Guidelines and Storage Recommendations

ORBITAL SANDING GUIDELINES

USING THE FOLLOWING GUIDELINES WILL ASSURE YOU GET THE MOST OUT OF YOUR RANDOM ORBIAL SANDER

Equipment Operation

- 1. Set the sander FLAT on the workpiece prior to starting the sander.
- 2. Remove the sander from the workpiece prior to releasing the sanding lever.
- 3. Let the abrasive do the work. You do not need to work the abrasive.
- 4. The typical sander weighs around 2-3 pounds. This is the exact weight that should be applied to the workpiece. Putting excessive pressure on the tool will cause the sander to stall, resulting in swirl marks.
- Avoid tilting the sander on edge. This practice will result in dipping of the sanded surface and deeper swirl marks than normal.
- 6. Make sure that the back up pad is in good condition. Missing chunks, as well as buildup on the pad's surface will "telegraph" through to the part being sanded, resulting in swirl marks.
- 7. Several passes over the area to be sanded are more effective than trying to push the sander hard with one pass. The best sanding pattern is long sweeping strokes with just the weight of the machine.
- 8. The sanding pattern of a random orbital sander is non-directional. It is not necessary to follow the grain of the wood.
- 9. Once a small area has been sanded, it is best to blend in the repair by lightly sanding the whole piece for a smooth consistent finish.

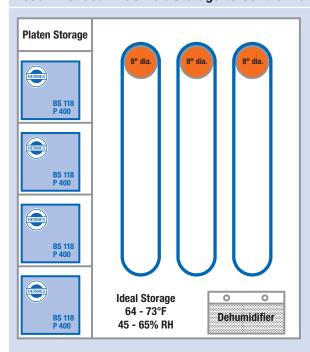
Air Supply Recommendations for Orbital Sanders

- 1. When random orbital sanders are operated at air pressures below the manufacturer's recommendations, they are far more likely to produce swirl marks on the work piece.
- 2. The air supply at the sander can be checked while the tool is running by utilizing a "T" fitting with an air pressure gauge attached. The "T" fitting should be the same I.D. as the connector on the tool.
- 3. The coupling from the tool to the hose should be the same I.D. as the pipe fitting recommended for that tool (i.e. Orbital sanders normally accept a 1/4" NPTF fitting). The I.D. of that fitting **SHOULD NOT** be reduced from 1/4" by a 3/16" quick change coupler. Quick-change couplers in 1/4" are also available.
- 4. Most air tool manufacturers recommend the use of the next larger size I.D. hose from the tool to the pipe. A 5/16" hose is needed for a sander with a 1/4" I.D. coupling.
- 5. The length of hose between the tool and the air pipe should be as short as possible (under 20 feet) as rubber hoses restrict airflow. If longer hoses are necessary, the next larger I.D. should be utilized.
- 6. Any type of air control equipment attached to the iron supply pipe, (ex: oilers, gauges), should have an I.D. at least as large as the hose I.D. Even one restriction in the air supply system will reduce the air supply below the minimum requirement.
- 7. Proper lubrication is required. If in-line oilers are not utilized, a daily application of the proper oil should be applied to the tool.
- 8. Random orbital sanders run most efficiently at approximately 90 PSI at the tool while running under load.

STORAGE OF WIDE BELTS AND OF COATED ABRASIVES IN GENERAL

Careful storage ensures maximum benefits – Hermes abrasives are high quality tools and as such require corresponding storage considerations. Improper storage and handling may have adverse effects on performance. Particular care must be taken in the storage of paper-backed products as they are more susceptible to surrounding climatic conditions than cloth-backed.

Recommended Wide Belt Storage to Control Humidity level and protect paper belts



Specifications

- 1" square steel tubing used for the frame
- 1/2" plywood or similar for exterior sheathing
- . Doors open on the front for full access
- Dehumidifier placed in the box and plumbed outside
- Belts hung on 8" diameter PVC or similar
- · Number of belt racks depend upon the qty. of grits used
- Should have one extra rack to hang used belts when not in use

General Storage Recommendations of Coated Abrasives



- Room temperature 64 73°F
- Relative humidity 45 65%
- If possible in original packaging on shelves, pallets or stands.
- Products should be used in the order they are recieved



- Near sources of heat such as heaters or radiators
- Extreme variations in temperature (cold/hot)
- Store directly on concrete or stone floors
- Store in unheated rooms in winter



Hermes Abrasives Institute – for your efficient sanding process







WE WOULD BE DELIGHTED TO ADVISE YOU.

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holistic analysis with modern measuring and analysis

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Our training courses:

- Basic training about coated abrasives and how to use it correctly
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ermes Group websites are continuously updated and form an important information platform for customers and interested parties. Here you will find virtually all the information which is useful when planning and purchasing Hermes abrasives.

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In the **"Product Finder"** for example, enter simple search queries to find the correct Hermes type and have its key product information (such as product structure and benefits) and primary applications displayed. Alternatively, use the interactive **"Contact Finder"** for a list of Hermes experts (both office-based and sales) – all over the world, of course.

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