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Art.No. 6255332031, Printed 02/2018. All items subject to change without notice.

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Precise Cleaning Tools for Industrial Distributors of Welding Equipment

Stock-removing solution providers for welding seams

Non-stock-removing solution providers for welding seams

Grinding discs and flap-discs

Grinding discs are material-removing tools and mostly used to remove a lot of material in a short time, thus resulting in a coarse grinding pattern.

Fast and high material removal using a grinding disc

When working with a grinding disc, heat is generated which may lead to thermal bluing on the workpiece.

- Grinding discs achieve a high material removal rate in a short time. However, users must take into consideration that inclusion-free and not contaminated parts of the welding seam may also be ground off.
- Grinding discs do have a longer lifetime than flap discs

Flap discs are material-removing tools as well. Compared to grinding discs, their removal rate is lower. Thanks to their overlapping lamellas, they create a finer, uniform finish and are more pleasant to use.

Flap discs can be used more versatile:

- Flap discs are used during the preparation of welding seams for descaling, deburring, chamfering or preparing the V-seam of the workpiece.
- After the welding process, flap discs are the perfect choice for the smoothing or surface grinding of the welding seams. Contaminations of the surface, like splatters or slag, can be removed easily and fast as well.

Polishing flap discs

Polishing flap discs (coarse and medium) are made of a non-woven fleece in an overlapping flap structure and provide outstanding results during preparation, post-processing or reworking welding seams and removing welding spatters. Polishing flap discs remove oxide films and thermal discoloration caused by the welding of pipes, tanks and other devices.

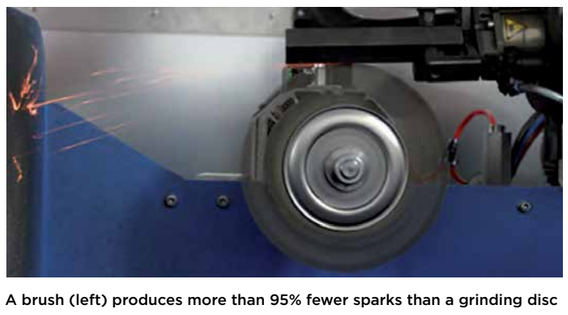
- The coarse fleece is slightly removing material and can ideally be used for the grinding or smoothing of welding seams.
- The medium-structured non-woven fleece does not remove any material and is therefore ideal for the matting of V2A welding seams.

Post-processing of a welding seam using a polishing flap disc

Brushes

You are trying to remove contaminations or inclusions safely and put an emphasis on not touching the actual structure of the workpiece? Then technical brushes are the right choice for your type of application.

- Brushes are non-stock removing tools. They clean contanimation and debris, leaving the original surface of the welded material intact.
- Brushes produce more than 95% fewer sparks than grinding discs.
- When compared to grinding tools, brushes are on average 6-8 dB (A) less noisy. A +/- 3 dB (A) increase (or decrease) means that the intensity of a sound is doubled (or halved).
- Brushes generate less heat during usage and therefore do not alter the molecular surface of the welded material.
- Brushes have a longer service-life than grinding tools.
- For more information please visit: **http://weldcleaning.osborn.com**



A brush (left) produces more than 95% fewer sparks than a grinding disc

Cleaning of a welding seam using a knotted wire brush

Coarse cleaning fleece

The coarse cleaning fleece behaves like technical brushes and removes deposits - without chipping. They are particularly recommended for surface processing.

The coarse cleaning fleece is not suitable for edge grinding or deburring!

Cleaning and descaling of a steel surface using a coarse cleaning fleece

- The coarse cleaning fleece consists of a reinforced nylon impregnated with an synthetic resin and fleece.
- The coarse cleaning fleece loosens dirt and deposits on surfaces, removes thermal bluing and fine weld splatters.

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WELDING MATRIX
PRODUCT RECOMMENDATIONS

Depending on the welding method, contamination or other non-metallic debris can become embedded in the surface of the welding seam.

Non-metallic debris may not adhere to the welding seam as well as other materials. If the welded component is subsequently coated, defects or corrosion may occur at this point. Independent of the welding method and the position of the layer (root, fill or cap), we can supply the right cleaning tool. Please refer to our welding matrix to find the correct tool for every application.

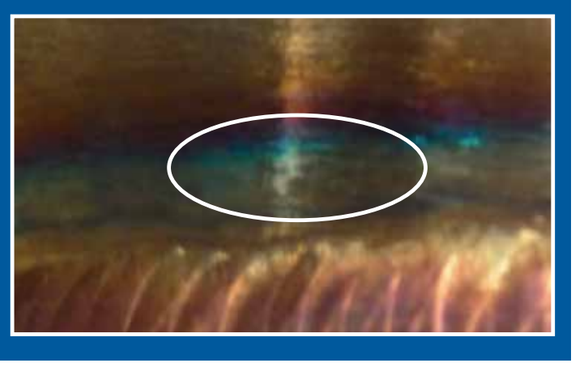
Most common contaminations occuring during a welding process.

SLAG

SPATTER

SILICATES

THERMAL BLUING



Welding Method	Debris Type	Weld Position / Application	Feature		Grinder Size	Brush / Disc Type	Osborn/Dronco Item No.	Product Features	Material	Filament
MMA	slag	root	up to 15 mm wall thickness		Model 125		9802-921 873	Ø 125 x 6 mm, knotted wire, plastic bonded, straight form - non-deforming, long servicelife	steel wire	0.50 mm
			up to 30 mm wall thickness		Model 180		9802-921 875	Ø 178 x 6 mm, knotted wire, plastic bonded, straight form - non-deforming, long servicelife	steel wire	0.50 mm
		fill layer	up to 15 mm wall thickness		Model 125		9502-626 251	Ø 125 x 6 mm, knotted wire	steel wire	0.50 mm
			up to 30 mm wall thickness		Model 180		9906-026 051	Ø 178 x 6 mm, knotted wire	steel wire	0.50 mm
		cap layer	up to 15 mm wall thickness		Model 125		1212-631 151	Ø 125 x 13 mm, knotted, clock/anti-clockwise	steel wire	0.50 mm
			up to 30 mm wall thickness		Model 180		1202-653 151	Ø 178 x 13 mm, knotted, clock/anti-clockwise	steel wire	0.50 mm
		welding zone	welding seam preparation		Model 125		0002-608 151	Ø 65 mm, knotted wire	steel wire	0.50 mm
					Model 180		0002-608 154	Ø 100 mm, knotted wire	steel wire	0.50 mm
	spatter	root	up to 15 mm wall thickness		Model 125		3123-551 100	Ø 125 x 3 mm, depressed center	grinding disc with ceramic grain	
			up to 30 mm wall thickness		Model 125		3124-560 100	Ø 125 x 4 mm, depressed center		
		fill layer	up to 15 mm wall thickness		Model 125		3126-040 100	Ø 125 x 6 mm, depressed center	grinding disc with aluminium oxide	
			up to 30 mm wall thickness		Model 180		3186-041 100	Ø 180 x 6 mm, depressed center		
		cap layer	stock removal, grinding		Model 125		5212-384 100	Ø 125 mm, tapered	zirconium corundum	Grit 40
					Model 180		5218-384 100	Ø 180 mm, tapered	zirconium corundum	Grit 40
		welding zone	stock removal, grinding		Model 125		5212-384 100	Ø 125 mm, tapered	zirconium corundum	Grit 40
					Model 180		5218-384 100	Ø 180 mm, tapered	zirconium corundum	Grit 40
TIG MIG MAG	silicates	root	up to 15 mm wall thickness		Model 125		4102-921 051	Ø 125 x 5 mm, crimped wire, plastic bonded	steel wire, brass-coated	0.38 mm
			up to 30 mm wall thickness		Model 180		0002-921 875	Ø 178 x 5 mm, crimped wire, plastic bonded	steel wire, brass-coated	0.38 mm
		fill layer	up to 15 mm wall thickness		Model 125		9502-626 311	Ø 125 x 6 mm, knotted wire	steel wire	0.35 mm
			up to 30 mm wall thickness		Model 180		4602-626131	Ø 178 x 6 mm, knotted wire	steel wire	0.35 mm
		cap layer	up to 15 mm wall thickness		Model 125		1212-631 131	Ø 125 x 13 mm, knotted clock/anti-clockwise	steel wire	0.35 mm
			up to 30 mm wall thickness		Model 180		1202-653 131	Ø 178 x 13 mm, knotted, clock/anti-clockwise	steel wire	0.35 mm
	various	welding zone	welding seam preparation		Model 125		3912-613 163	Ø 75 mm, corded wire, „Longlife“	steel wire, corded	0.30 mm
					Model 180		3902-613 164	Ø 100 mm, corded wire, „Longlife“	steel wire, corded	0.30 mm
Stainless/ Plasma	blue colour	root	up to 15 mm wall thickness		Model 125		4602-626 331	Ø 125 x 6 mm, knotted wire	stainless steel wire	0.35 mm
			up to 30 mm wall thickness		Model 180		4612-626 331	Ø 178 x 6 mm, knotted wire	stainless steel wire	0.35 mm
		fill layer	up to 15 mm wall thickness		Model 125		2202-631 331	Ø 125 x 13 mm, knotted wire	stainless steel wire	0.35 mm
			up to 30 mm wall thickness		Model 180		0002-653 351	Ø 178 x 13 mm, knotted wire	stainless steel wire	0.50 mm
		cap layer	heavy duty		Model 125		5512-204 100	Ø 125 x 22,23 mm, coarse	polishing fleece	coarse
					Model 125		5512-206 100	Ø 125 x 22,23 mm, medium	polishing fleece	medium
		welding zone	material sensitive		Model 125		6700-002 100	Ø 125 x 22,23 mm	polishing fleece	
					Model 180		6700-003 100	Ø 178 x 22,23 mm	polishing fleece	
Manual cleaning	various	surface 	hard wires, pointed				0003-162 133	Welder‘s hand brush, 3 rows, pointed	steel wire	0.35 mm
							0003-162 333	Welder‘s hand brush, 3 rows, pointed	stainless steel wire	0.35 mm
			soft wires, crimped				0008-462 291	All purpose hand brush, red handle	steel wire	0.30 mm
							0008-462 391	All purpose hand brush, green handle	stainless steel wire	0.30 mm
			very soft wire, crimped				0008-462 591	All purpose hand brush, yellow handle	brass wire	0.30 mm

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