Flexible sanding products in general









Abrasive paper and abrasive cloth products - flexible abrasive products – are all based on three component parts: abrasive, backing and bonding agent. Through combining these you can produce a comprehensive range of flexible abrasive products, which with regard to removal capacity, flexibility, strength, etc are adapted for special tasks.

Abrasive

Ceramic Aluminium oxide. Norton's trademark Seeded Gel (SG) is one of Norton's

newly developed abrasive for very taxing grinding operations. The structure of the self-sharpening abrasive grit brings about a large removal capacity and long life as well as colder grinding. Zirconium/Aluminium oxide, Norton's trademark NOR-

ZON, is an abrasive with an extremely strong, hard abrasive grit resulting in a large removal rate and long life.

Aluminium oxide. Norton's trademarks ADALOX and ME-TALITE, have a very high degreed of purity, which is why aluminium oxide grit is harder and robust than natural abrasive grit.

dest of the abrasives usually used for flexible abrasive products and is the closest to boron carbide and diamonds **Emery** consists of natural corundum. This abrasive previously had a very broad usage, but now is only of limited

Silicon carbide. Norton's trademark DURITE is the har-

Flint is a mineral related to quartz. This abrasive has increasingly been sidestepped for the artificial abrasives.

Grit size

number.

American

24

30

36

40

50

60

80

100

120

150

significance.

The grit is produced by crushing followed by screening to accurately checked standard sizes no 12 - 1200 where 12 is the coarsest and 1200 the finest. The number series used consistently for all European manufactured products (Pgraduation) differs from the American graduation of grit sizes 240 and finer. The table below shows a comparison. Grit sizes in the catalogue follow the European standard. American standard is stated by US before the grit size

European

24

30

36

40

50

60

80

100

120

150

Grit distribution Normally a distinction is made between two different types

of grit distribution. If the distribution is small, i.e. the grit lies close together, this is call a dense coating. The opposite is a sparse coating.

Dense coating is the most common. Sparse coating is primarily used for sanding materials that have a tendency to quickly clog the abrasive coating. **Backing**

The backing for flexible abrasive products is divided into four main groups: paper, woven fabric, paper/woven fabric and fibre.

Paper. Abrasive paper products are manufactured in four sizes with different bending properties. The different designs are designated using the letters A, C, D, E and F, where A is the thinnest and most flexible and F the thickest and stiffest.

Woven fabric. Cotton fabric or polyester fabric are used for abrasive cloth in two main designs designated with the letters J, X and Y, where J is thin and flexible and X is thick and robust.

Fibre. This backing, which is primarily used for fibre discs, is extremely homogeneous, strong and resilient and therefore has the characteristics preferred for the taxing operations where discs are used.

Flexibility

suited for practical use they are treated according to a method called **flexing**. This method involves, the abrasive cloth being passed over rollers, which breaks the adhesive layer in a regular pattern of extremely fine cracks. By varying these crack patterns it's possible to obtain materials with different degrees of flexibility.

In order for abrasive products to have the flexibility best

Association between different grit size designations

grit sizes	grit sizes	(sandpaper	grit sizes
		emery cloth,	
(US)	Р	steel wool) approx.	(US)
. ,		7 - 1 - 1	` '

Coarseness-no

(US)	Р	emery cloth, steel wool) approx.	(US)

(US)
400

European grit sizes
(P)

180

220

240

280

320

360

400

500

600

800

1000

1200

Coarseness-no	
(sandpaper	

emery cloth, steel wool) approx.

3

2

1

0

2/0

3/0

4/0

9111 01200	9111 01200	emery cloth,	grittoiz
(US)	Р	steel wool) approx.	(US)

(US)	Р	steel wool) approx.	(US)
16	16	_	180

(US)
100

(US)	Р	steel wool) approx.	(۱

(US)
180

280

320

360

400

500

600

American

220

240