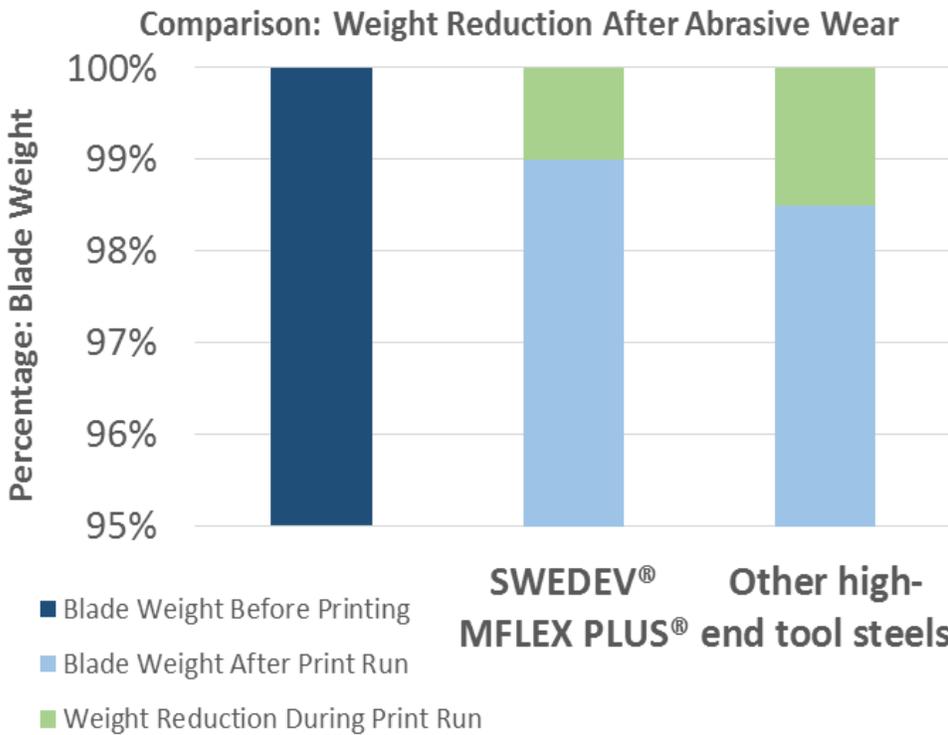


MFLEX PLUS®: THE “GO TO” DOCTOR BLADE FOR HIGH SPEED HD FLEXO

MFLEX PLUS for HD FLEXO® is the latest development in SWEDEV’S range of printing doctor blades. This grade offers significantly higher wear resistance than other steel blades including high quality tool steels. The higher hardness of PLUS®, due to its high occurrence of very small and specially treated carbides, achieves longer blade life while reducing abrasion.



As a result, this blade can achieve immediate seating to an anilox, maintain precise ink metering for longer periods at very high operating speeds and a reduction of anilox wear.

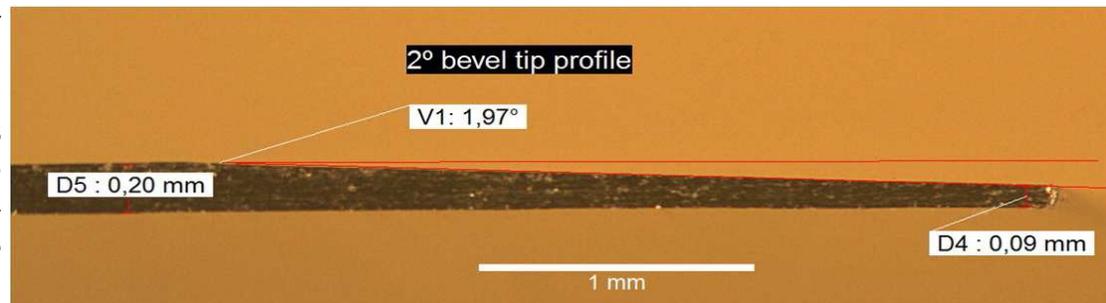
“MFLEX Plus® offers significantly higher wear resistance than other steel blades”

Extensive internal testing, supported by independently verified field tests with customers, confirms more than four times greater wear resistance compared with doctor blades made from standard types of carbon steel specifically in demanding applications like white ink.

MFLEX PLUS® is particularly suited to deal with all types of inks including abrasive inks and coatings, such as white inks or other inks with high percentages of titanium dioxide and metallics.

COMPARISON: Over time, MFLEX PLUS shows 25% greater wear resistance compared with other high-end quality tool steels. (Aggregated result from several tests performed at SWEDEV’S R&D center. The weight loss of the material measured after wear from a 175 mm diameter, 40 cm long anilox roller running at a pressure of 2 bar, 200 m/m for 16 hours in tap water.) The results are supported by field tests in actual production with customers. Results may vary according to specific application variables.

MFLEX PLUS® for HD FLEXO combines this new amazing steel with a more rigid tip that achieves a clean wipe from the start and for millions of feet. This enhanced tip gives the performance value of a lamella without the flex and maintains a more narrow contact area.

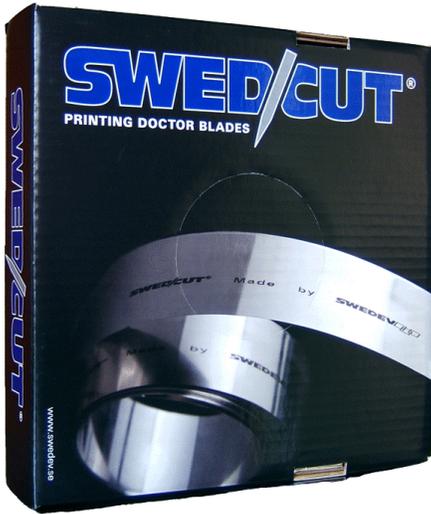


While doctor blades were often the overlooked element in the Flexo process, they aren’t any more. Blades have more to do with process success than ever. Armed with the right blade, a flexographic printer can totally eliminate process waste like UV spitting, streaks, anilox damage, back-doctoring, and do so running at very high speeds for longer periods.

“enhanced tip gives the performance value of a lamella without the flex”

FLXON / SWEDEV offers a wide range of high quality steel, coated and plastic doctor blades. FLXON can help you find the best one for your application.

MFLEX PLUS®: PARTICLE SIZE MATTERS!



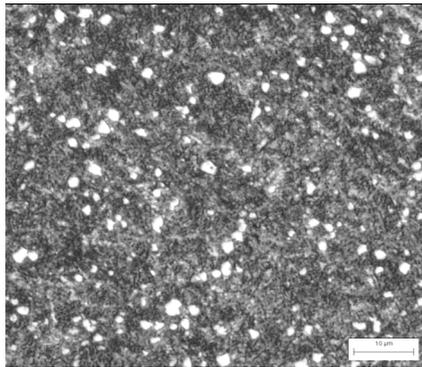
MFLEX PLUS for HD FLEKO

Achieves longer blade life while reducing abrasion with a formulated grade that offers a higher wear resistance than other high quality steels. Particularly suited for FLEKO, GRAVURE, and COATING applications including various abrasive inks and coatings with high percentages of titanium dioxide and metallics.

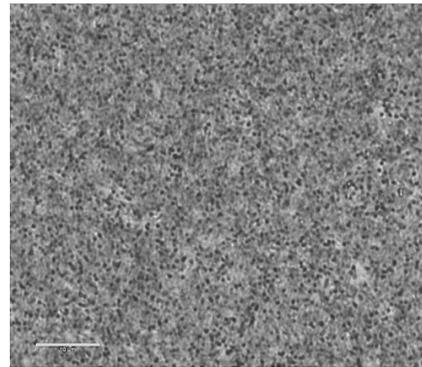
Micro Structure	Standard Strips	MFP
Carbide Sizes	5μ – 10μ	5 to 10 times smaller
Carbides/mm ²	50,000	Over 10 times more
Friction Level	High	Very Low
Wear	High	Very Low
Life	X	XXXX

MICROSTRUCTURE

STANDARD STRIP STEEL



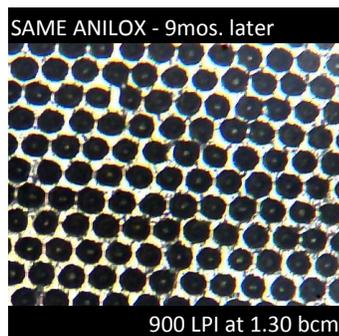
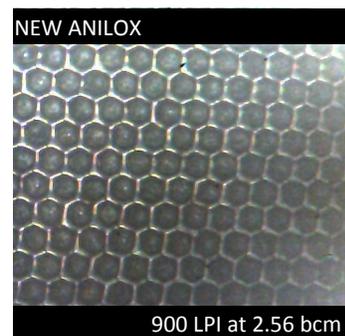
MFLEX PLUS® STEEL



REDUCE YOUR ANILOX AND BLADE EDGE WEAR

ANILOX WEAR

Supported by field tests, Mflex Plus shows a 25% greater wear resistance over time compared with other high-end quality tool steels. In just 9 months, the below anilox has lost ±50% of its volume to wear caused by running standard strip steel blades.



Images: Interflex Laser Engravers ©

BLADE EDGE WEAR

Example of a blade's edge wear after extreme pressure is applied to gain clean wipe. The contact area is widened by 3x.

