

CBG DOCTOR BLADES

PRODUCT DESCRIPTION

HIGH-QUALITY DOCTOR BLADES MADE OF SWEDISH STEEL

Red Label

- Top quality Swedish carbon steel.
- Specially selected, purified chemical composition.
- Consistent size of carbide inclusions in an even distribution.
- Maximum resistance.
- Surface – polished, bright.
- Tensile strength – $1960 \pm 100\text{N/mm}^2$ (580 HV).
- Best possible straightness - 1,0/3000mm.

Blue Label

- Swedish carbon steel, special polished.
- Optimized metallurgical structure.
- Minimal and uniform size of carbide inclusions.
- Extremely pure chemical composition.
- Surface – polished, bright.
- Tensile strength – $1960 \pm 100\text{N/mm}^2$ (580 HV).
- Best possible straightness – 0,6/3000mm.

Black Label

- New, high-quality alloy of Swedish carbon steel.
- Excellently purified structure for uniform wear resistance.
- Innovative process of hardening and tempering steel to increase abrasion resistance.
- Improved ink collection precision and durability.
- Surface – polished, bright.
- Tensile strength – $2060 \pm 100\text{N/mm}^2$ (605 HV).
- Best possible straightness - 1,0/3000mm.

Gold Label

- Longlife doctor blades. Swedish high-density steel alloy.
- Unique chemical composition.
- High wear resistance.
- Perfect fit for extended runs, even in highly aggressive ink environments.
- Excellent for white paint.
- Surface – polished, yellow.
- Tensile strength – $2100 \pm 100\text{N/mm}^2$ (615 HV).
- Best possible straightness - 1,3/3000mm.

Silver Label

- Swedish stainless steel, special polished.
- Complete protection against corrosion and oxidation.
- High wear resistance
- Well-suited for working with water-based inks and addressing corrosion-related issues.
- Surface – polished, bright.
- Tensile strength – $1910 \pm 100 \text{N/mm}^2$ (565 HV).
- Best possible straightness - 1,1/3000mm.

White label

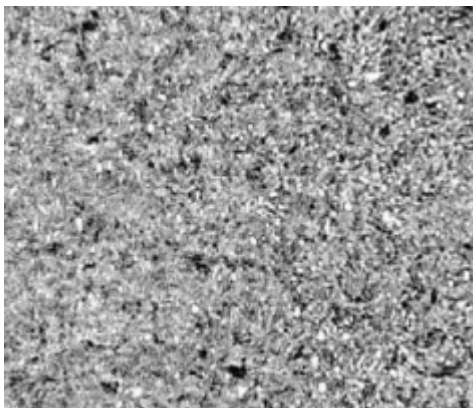
- Medium and high-density plastics and composites.
- Optimal flexibility and adaptability.
- High wear resistance at moderate operating speeds.
- Specially adapted for work based on water-based inks for corrugated cardboard.
- Best possible flatness – 0,3% across width.
- Doctor blade width tolerance - $\pm 0,10 \text{mm}$, for the blade width $< 50 \text{mm}$ or $\pm 0,15 \text{mm}$ for thickness $> 50 \text{mm}$.
- Doctor blade thickness tolerance - $\pm 0,009 \text{mm}$, for the blade thickness $< 0,152$ or $\pm 0,011 \text{mm}$ for thickness $> 0,152 \text{mm}$.
- Lamella width tolerance - $\pm 0,025 \text{mm}$.
- Lamella thickness tolerance - $\pm 0,003 \text{mm}$.
- Roughness of the contact surface finish – $Ra 0,10 \pm 0,05 \mu\text{m}$.

PROPERTIES

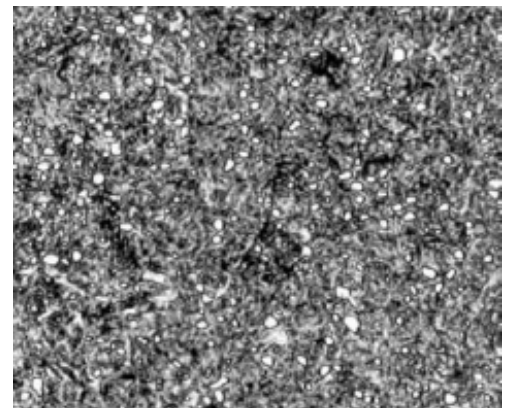
Metallurgical structure and dispersion of carbides

Uniform structure and slower blade wear depend on:

- Pure chemical composition.
- Evenly distributed, small-sized carbide inclusions.
- High density (low porosity).
- Absence of non-metallic inclusions.
- Undifferentiated metallurgical structure.
- Precise finish – magnification of 1000x.



Precise finish - 1000x



Standard finish - 1000x