

TRANSDURA UCG

ULTIMATE CUT & GOUGE RESISTANCE
FOR HIGH-ENERGY IMPACTS

PRODUCT SHEET



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ULTIMATE CUT & GOUGE RESISTANCE FOR HIGH-ENERGY IMPACTS



Sempertrans Transdura UCG is our latest cover compound. It is a game changer, developed to give you ultimate protection against cutting and gouging.

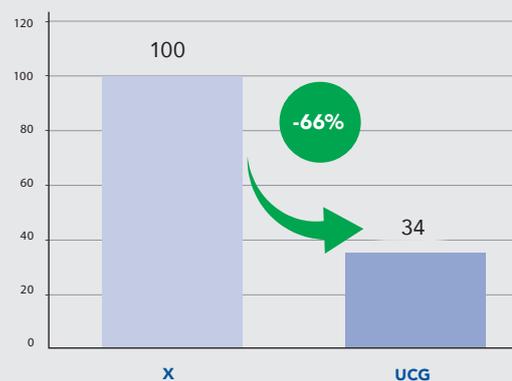
A compound's ability to deal with load energy from impact is crucial for superior cut and gouge performance. In this regard Transdura UCG cover excels. Development centered around load absorption was proven to positively contribute to increase the cutting and gouging resistance properties of the rubber. The Cut-Depth index (CDi) shows that **Transdura UCG cover outperforms DIN-X cover by 66%**. It is the perfect fit for high-energy impact applications with large lumps and high drop height.

HIGHLIGHTS

- Ultimate cut and gouge resistance to disperse impact of hard rock lumps
- Designed for harshest conditions in hard rock mining
- Ideal for high-energy impact applications – as large lumps/rocks or high drop height
- Increases conveyor belt lifetime
- Improved cleaning performance due to less cover damages



CUT-DEPTH INDEX



If your application conveys large lumps or you have elevated height drop of material onto your belt, try Transdura UCG – the ideal cover for high energy impact applications.

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Ultra-cut and gouge resistance compound (UCG grade)

Why do some conveyor belts damage quicker than others?

Root Cause | Heavy impact application

Heavy and sharp material causes a lot of damage at the loading point of the conveyor belt. Therefore, the main reason for replacing the belt is not its excessive level of abrasion, but the high number of cuts and gouge damages. In this case, the best solution is to use a compound that has been specially developed and adapted to hard working conditions. UCG cover being able to "disperse" or "dampen" the impact effect of the load as opposed to simply absorbing the impact and then elastically recovering

The consequences of impact

The consequences of heavy impact application on conveyor belt with a standard DIN X grade



Standard DIN X grade

Our solution | UCG compound

After several months of operations, you can clearly see the difference between the standard DIN X grade and the UCG grade in terms of durability.



UCG grade

The ultimate Cut & Gouge resistance was confirmed by 3 Independent Testing institutions:



- . Cut resistance evaluated by penetration depth
- . Cut resistance evaluated by cut depth



- . Impact resistance evaluated by spring back distance

ITA

- . Cut resistance evaluated by tangential force
- . Cut resistance evaluated by cut length

Results based on cutting distance from The University of Newcastle Research Association (TUNRA)



Cross Section of DIN X Cut Depths



Cross Section of UCG Cut Depths

Semperit at a Glance

Semperit AG Holding has been a worldwide leading supplier of natural polymer and plastic products for almost 200 years. We are a group operating internationally, which develops, produces and markets highly specialised products made of polymer and plastics (hydraulic and industrial hoses, conveyor belts, escalator handrails, building construction profiles, cable car rings and railway superstructure products) in the Industrial Sector.



Semperit Hoses

Hydraulic and Industrial hoses



Semperit Conveyor Belts

Tailor made conveyor belts



Semperit Smart Polymer Solutions

Handrails, Cable car rings, ski foils



Semperit Sealings

Window profiles, rubber sheeting

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