

# TECNOTHANE® mining parts: A rugged solution for excavating equipment

The production of drilling and excavating equipment, employed in the mining industry to extract and move rocks, minerals, aggregates and other raw materials, relies upon the use of rugged, robust, rubber-like parts.



**TECNOELASTOMERI**  
Engineering Urethane Elastomers

**HUNTSMAN**  
Enriching lives through innovation

## TECNOTHANE® mining parts

Offering very good abrasion, tear and temperature resistance, our TECNOTHANE® engineering elastomers can withstand the harsh, hazardous and hot conditions associated with working underground. Typical applications for our TECNOTHANE® mining materials include heavy-duty wheels for transportation equipment; plus washers, gaskets, seals, grommets and other technical parts for sorting and separating tools such as sieving screens, hydrocyclones and protection plates.



## Technical properties

TYPICAL PHYSICAL PROPERTIES	UNIT	TEST METHOD	MDE SERIES 2	MDE SERIES 3	MPC*	MPT*
Hardness	Sh	DIN 53505	75D	90A	90A	90A
Modulus 100%	MPa	DIN53504	-	10	5	5
Modulus 300%	MPa	DIN53504	-	20	15	14
Tensile strength	MPa	DIN53504	45	50	54	40
Elongation at break	%	DIN53504	80	500	600	480
Tear resistance, die B/a (90°, without nick)	kN/m	ISO 34-1	20	90	90	80
Tear resistance, die B/b (90°, with nick)	kN/m	ISO 34-1	170	48	45	40
Compression set at 70°C / 23h	%	ISO 815	-	25	20	18
Rebound resilience	%	ISO 4662	-	44	50	70
Abrasion resistance	mg	ISO 4649	>100	55	50	45
Minimum service temperature	°C	INTERNAL	-30	-20	-30	-50
Available hardness range	Sh	DIN 53505	-	55A - 60D	55A - 60D	65A - 60D

\* Excellent hydrolysis resistance

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### About Huntsman:

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