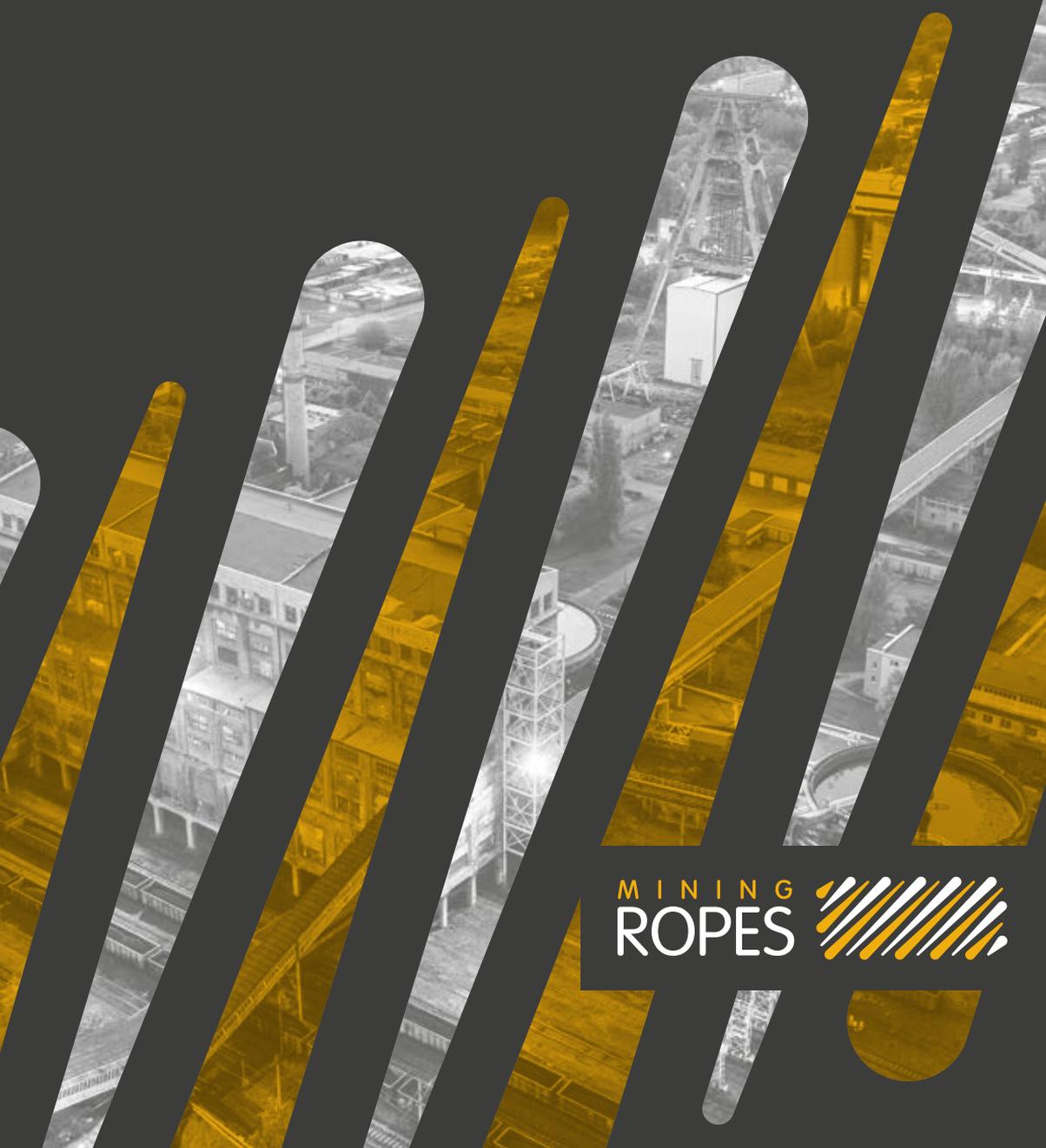


# Outstanding levels of **performance**



MINING  
**ROPES** 

ArcelorMittal **ROPES**

ENGINEERING EXCELLENCE

# Productivity depends on efficiencies

Recognised worldwide for its corrosion resistant products, ArcelorMittal ROPES - part of the ArcelorMittal Group, manufactures some of the most technologically advanced steel ropes in the world.

ArcelorMittal ROPES offers much more than high quality, competitively priced steel wire ropes. Our purpose is to work with our customers to fulfil their technical requirements, quickly, safely and efficiently.

*"Our vertically integrated business model enables us to efficiently track and trace the origins of the materials we use, improving quality controls and reducing costs"*

Morten Breddam  
Business Line Manager, ArcelorMittal ROPES



## NEW LEVELS OF PERFORMANCE

Research and development are the cornerstone of sustainable development and innovation. Our worldwide network of over 1400 full time researchers, operating from 13 research centres around the world, enables ArcelorMittal ROPES to push forward the limits of steel wire rope technology.

# DEEP SHAFT MINING // LASTING PERFORMANCE

# Klondike®

MINING  
ROPES 

A new breed of non-rotating rope that is engineered for aggressive, deep shaft mining.

Klondike® is a hybrid rope that integrates fatigue proofing with compacted strand technology to deliver high performance, safety and longevity.

Higher strength performance

Low stretch, higher stability

Higher fatigue performance

## Properties



Stretch Resistance



Lubrication



Rotation Resistance



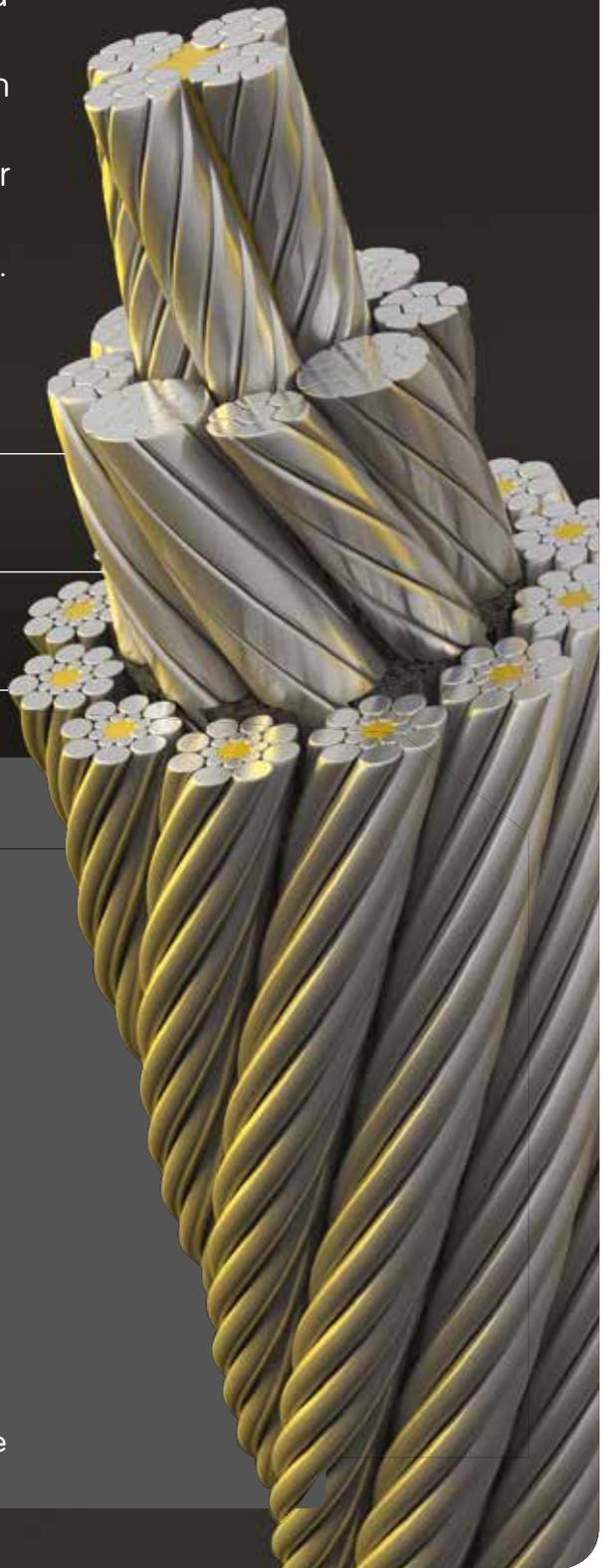
Pre-Shaped



Plastic Inserts



Lang Lay Rope

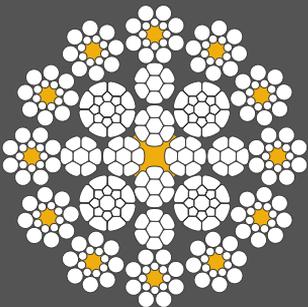


Our **Mining Ropes** are engineered to maximise operational performance and enhance productivity.

## Klondike®

A new breed of non-rotating rope engineered for more aggressive, deep shaft mining environments.

Klondike® is a hybrid rope that combines the fatigue proofed Notorplast® with compacted strand technology. Strong and efficient, Klondike® integrates several innovations that are key to performance, safety and longevity. The outer strand structure is highly adaptable to friction sheaves providing a low and even tread pressure on linings.



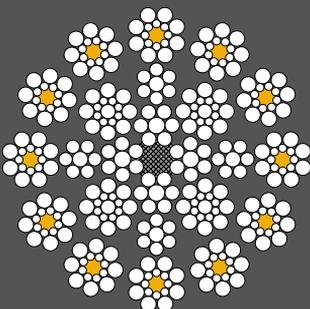
MBL/787 > 3396



## Notorplast®

The low maintenance, fatigue resistant rope that is engineered to last.

Polyethylene inserts in the outer strands absorb pressure and reduce internal dynamic stresses, making Notorplast® highly adaptable to friction sheaves. The textile core absorbs pressure from surrounding strands and assists lubrication. With no rotational stresses being transferred to the guiding system, Notorplast® is a highly efficient rope.



MBL/735 > 3148



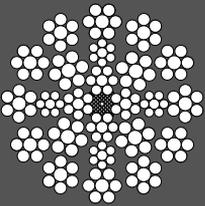
# NRHD 24/24 CS

Engineered to address the physical challenges of the mining industry, NRHD 24 and NRHD 24 CS ropes are used for Koepe friction winders, drum winders and sinking shafts.

Engineered to address the physical challenges encountered in deep shaft mining, NRHD 24 is engineered for use as a Koepe extraction or balance rope, drum winder rope or sinking rope. The textile core absorbs pressure from surrounding strands and assists lubrication.

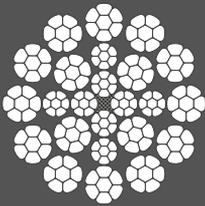
Engineered for use in deep shaft mining, NRHD 24 CS is a compacted rope for Koepe extraction, drum winders and sinking shafts. The compacted strands deliver increased rope density, decrease the internal stresses and improve MBL and fatigue resistance. The textile core absorbs pressure from surrounding strands and assists lubrication.

NRHD 24

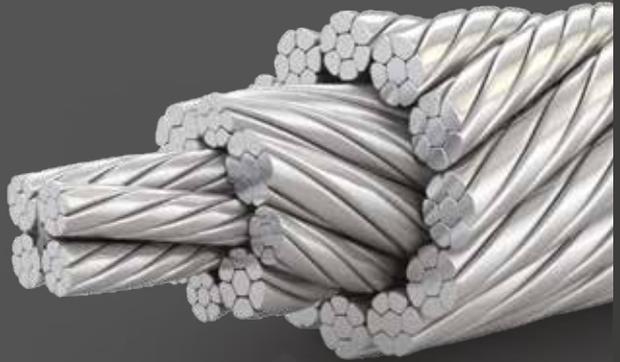


**EXTRACTION**  
MBL/246 > 1089  
**BALANCE**  
MBL/429 > 3042

NRHD 24CS



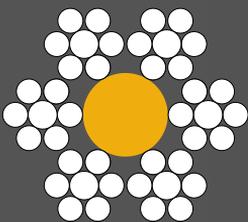
MBL/250 > 4715



# NCR6

The stable steel rope for aerial transportation and open pit mining.

The NCR6 features a solid plastic core making this rope an exceptionally stable rope with reduced stretch resistance. Designed for aerial transportation of skips and open pit mining, the NCR6 is a fatigue resistant rope that delivers a long service life.



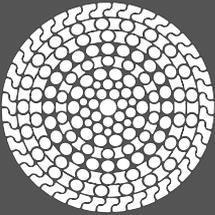
**SL17**  
MBL/346 > 1041  
**SLR17**  
MBL/323 > 1192



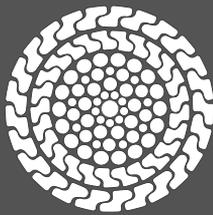
# Full Lock Coil, Z-Lock

Engineered for the demanding requirements of deep shaft mining and aerial transportation.

ArcelorMittal ROPES has developed two variants of the Full Lock Coil, Z-Lock rope. One variant has been engineered specifically for use in deep shaft mining, whilst the other is used specifically for aerial ropeways and open pit mining.



**EXTRACTION & BALANCE**  
MBL/407 > 3996



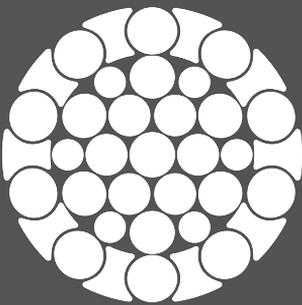
**TRACK ROPE**  
MBL/714 > 4302



# Half Lock Coil, X-Lock

The precision guidance rope with long service life.

Half Lock Coil, X-Lock is a non-rotating, low stretch, high strength rope that is designed for use as a guide rope in deep mine shafts. The smooth and closed outer surface reduces friction and increases resistance to the ingress of dirt particles.



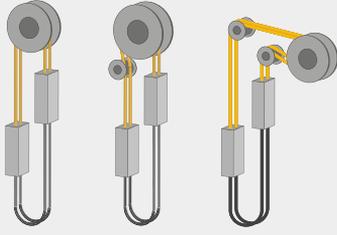
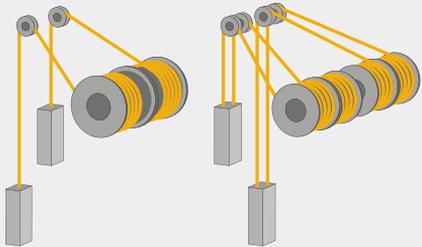
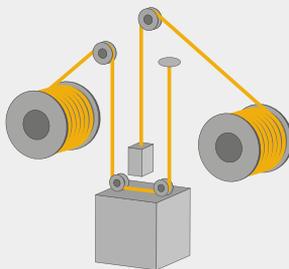
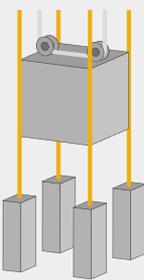
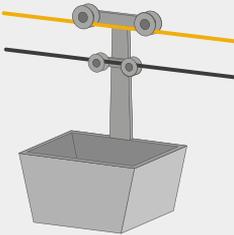
MBL/494 > 2051



## QUALITY

All our Mining Ropes are supplied with an ArcelorMittal internal lab report. An independent lab report is available on request.

# Select the high performance Mining Ropes that are right for your application.

Friction Winder, Koepe	 <p>■ Extraction and Balance   ■ Extraction</p>	Klondike®	NCR6
		Notorplast®	Full Lock Coil, Z-Lock
		NRHD 24	
		NRHD 24 CS	Half Lock Coil, X-Lock
Drum Winder		Klondike®	NCR6
		Notorplast®	Full Lock Coil, Z-Lock
		NRHD 24	
		NRHD 24 CS	Half Lock Coil, X-Lock
Shaft Sinking		Klondike®	NCR6
		Notorplast®	Full Lock Coil, Z-Lock
		NRHD 24	
		NRHD 24 CS	Half Lock Coil, X-Lock
Guide Ropes		Klondike®	NCR6
		Notorplast®	Full Lock Coil, Z-Lock
		NRHD 24	
		NRHD 24 CS	Half Lock Coil, X-Lock
Aerial Transportation	 <p>■ Track Rope   ■ Hauling Rope</p>	Klondike®	NCR6
		Notorplast®	Full Lock Coil, Z-Lock
		NRHD 24	
		NRHD 24 CS	Half Lock Coil, X-Lock

# Two of our many success stories

## Rudna mine, Lower Silesia

Located in Lower Silesia, north of Polkowice city, the Rudna mine is the largest copper ore mine in Europe and one of the largest deep copper ore mines in the world.

Mining is carried out in three mining regions within Rudna with shafts ranging in depth from 950m to 1150m.

ArcelorMittal ROPES has supplied mining ropes to KGHM for 20 years, including Corzal® coated 48mm **NRHD 24** balance ropes.



## Lubin Mine, Warsaw

The Lubin mine, operated by KGHM, is a large mine in the west of Poland. Annual ore production is around 7.3 million tonnes from which 92,000 tonnes of copper and 423 tonnes of silver are extracted.

ArcelorMittal Mining Ropes are used in:

- Shaft L-II (Koepe tower). 890m of **Notorplast®** 38mm 4 is used for 18 tonne skips. This rope has lifted 79,000 skips in 43 months.
- Shaft L-V (Koepe tower). 840m of **NRHD 24** 59mm balance rope, with operating speeds up to 12 metres per second.



## ArcelorMittal **ROPES**

ENGINEERING EXCELLENCE

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