

MAXX AGNI™ *Fire Resistant Conveyor Belts*

MAXX AGNI Product Features

One of the main hazards that a conveyor system is susceptible to is fire. Since general purpose conveyor belts are combustible, in certain areas which are exposed to fire risk, we recommend the use of fire resistant conveyor belts. Fire is a safety hazard to personnel and a potential financial loss due to damage to equipment and substantial loss of production.

With advancements in technology, it is possible to manufacture conveyor belts that eliminate or reduce the risk of fire at the source. This is done by using a combination of polymers, chemicals and additives which contribute to improving the fire retardant properties of the conveyor belt. This can often be achieved without compromising the wear life of the conveyor belt.

In order to comply to varying levels of domestic and international fire resistance standards, Oriental Rubber has developed a range of fire resistant conveyor belts which we promote under the MAXX AGNI brand. This range includes conveyor belts suited for underground applications and specialized belts with low smoke and toxicity.

MAXX AGNI conveyor belts are commonly used in handling coal above ground in coal mines and power plants and also in underground coal mines. Fire resistant conveyor belts are also used for conveying other materials which are prone to ignition during use.

MAXX AGNI Conveyor Belt Benefits

- Reduced risk of fire hazard and the potential loss to human life, material and equipment
- MAXX AGNI conveyor belts are anti-static
- Easy to splice or repair using standard materials

MAXX AGNI Product Applications

- Surface Mines
- Underground Mines
- Power Plants
- Coal Handling Units
- Sulphur Conveying



Contact Belt Tech Today: P.O. Box 620 Washington, IN 47501
www.belttech1.com • 877-554-BELT • sales@belttech1.com

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MAXX AGNI™ *Fire Resistant Conveyor Belts*

MAXX AGNI Product Characteristics

- Common Widths 24" to 80"
- Carcass Variety Available EP / NN / PP
- Common Belt Rating 114 to 1400 PIW
- Number of Plies 2 Ply to 6 Ply
- Rubber Cover Grades Refer to Table Below
- Rubber Cover Thickness..... Minimum 1/16" to 3/4"
- Rubber Black
- Surface Finish Smooth
- Edge Cut Edge or Molded Edge
- Splicing Method Vulcanized / Mechanical Splice
- Packing Available In Cassette / Single Roll
- Belt Identification Unique Product Identification Number (PIN) at Every 33 Feet

MAXX AGNI Cover Types

These conveyor belts are recommended for use in applications where the ambient temperature may not be high but there is a distinct hazard of the conveyor belts being enveloped in fire. Rubber covers are fire resistant and anti-static.

Cover Type	Fire Resistant Test Compliance to Standard	Max Tensile Strength, PSI	Max Elongation at Break, %	Max Abrasion Loss, mm3	Application Characteristics	Primary Reference Material
Fire Resistant for Above Ground Application	FR ISO 340	2100	350	175	Excellent Resistance to Flame Propagation and Has Low Burning Rate	Coal, Minerals and Ores
	FR SANS F	2100	350	110		
	FR - IS	2500	350	175	Good Resistance to Flame Propagation and Has Low Burning Rate	Coal, Minerals and Ores
	FR - DIN K & DIN S	2100	350	175		
	FRAS - F	2100	350	175		
	FR - CAN CSA - C	2100	350	175		
	FR - MSHA - 2G	2100	350	175		
	FR - HAR	2500	350	100		
	FR - SAR	2100	350	65		
	FR - OR - *1 CAN C	1700	350	250		
	FR - HFFR MSHA 2G *2	1400	350	200		
Fire Resistant for Under Ground Application	MSHA - BELT	2100	350	150	Meets MSHA Standards Suitable for Underground Mines	Coal
	FRUG - AS	2100	300	100	Suitable for Underground Coal Conveying	

*1 : Fire Resistant + Oil Resistant for Oil Coated Flammable Material Handling. Swelling in Fuel B 70% (Max) at Room Temperature.

*2 : Halogen Free Belt, Low Smoke