



## TRANZ FireSafe® A200 Series

Fire Resistant Lubricants and Grease-gels from the TRANZ HypaLube Range

Includes Extreme service mechanical lubrication under high speed factors, extreme temperatures and extreme pressure contact up to 20,000 N & Controlled solubility lubricants •



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## TRANZ FireSafe® A200 Series

### Fire Resistant Lubricants and Grease-gels.

Includes Extreme service mechanical lubrication under high speed factors, extreme temperatures and extreme pressure contact up to 20,000 N & Controlled solubility lubricants

Examples: For underground mining equipment, near hot equipment such as in steelworks and smelting and in flammables & explosive gases warning areas.

|                      |  |
|----------------------|--|
| TRANZ FireSafe® A201 | Lubricating grease. NLGI 1. Extreme performance mechanical lubrication in hazardous environments   |
| TRANZ FireSafe® A202 | Lubricating grease. NLGI 2. Extreme performance mechanical lubrication in hazardous environments   |
| TRANZ FireSafe® A210 | High EP Lubricating grease with fluoropolymer additions for exceptional impact strength, lubricity, maximum chemical resistance and for low temperature applications. Extreme performance mechanical lubrication in hazardous environments |
| TRANZ FireSafe® A220 | EP Lubricating grease with extreme wear resistant organic & molybdenum compounds for high point - load resistance. Extreme performance mechanical lubrication in hazardous environments  |
| TRANZ FireSafe® A230 | EP Lubricating grease with extreme wear resistance for ceramic based maximum point - load resistance. Extreme performance mechanical lubrication in hazardous environments   |

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## TRANZ FireSafe® A200 Series - Fire Resistant Greases

### PERFORMANCE AREA

Extreme performance mechanical lubrication in hazardous environments where fire resistant products are mandatory or desirable.

### DESCRIPTION

The TRANZ FireSafe® A200 Series has been developed to provide environmentally safe and clearly identifiable, fire resistant lubricants for use in hazardous applications such as in mines where accidental or auto ignition of the lubricant could be catastrophic and otherwise endanger operating staff or plant. Where flammable materials and molten metals are handled, or processed, or where furnaces and high temperature ovens are operating, simple safety requirements let alone risk management, calls for a "No-Compromise" approach to non-flammable lubrication with the only wise choice being the selection of the appropriate TRANZ A200 FireSafe Fire Resistant series.

The FireSafe® TRANZ A200 Series base lubricant and thickener systems contain no hydrocarbon molecules whatsoever, nor are they chlorinated derivatives that can evolve chlorine by-products even when heated short of combustion. The TRANZ FireSafe® series are totally synthetic and non-flammable which we make into grease form and gels with inert inorganic temperature tolerant mineral structuring agents.

### The present TRANZ FireSafe® A200 Series covers

|                      |   |
|----------------------|---|
| TRANZ FireSafe® A201 | Lubricating grease. NLGI 1. Extreme performance mechanical lubrication in hazardous environments.   |
| TRANZ FireSafe® A202 | Lubricating grease. NLGI 2. Extreme performance mechanical lubrication in hazardous environments.   |
| TRANZ FireSafe® A210 | High EP Lubricating grease with flame resistant fluoropolymer additions for exceptional impact strength, lubricity, maximum chemical resistance and for low temperature applications. Extreme performance mechanical lubrication in hazardous environments. |
| TRANZ FireSafe® A220 | EP Lubricating grease with extreme wear resistant organic & molybdenum compounds for high point - load resistance. Extreme performance mechanical lubrication in hazardous environments.  |
| TRANZ FireSafe® A230 | Ultra EP lubricating grease with ultra-extreme wear resistant inorganic nitride compound for extreme point load resistance  |

## TRANZ A200 Series

## TRANZ FireSafe® - Fire resistant greases

**Description** Flame Resistant Lubricants and Grease-gels.  
Includes Extreme service mechanical lubrication under high speed factors, extreme temperatures and extreme pressure contact up to 20,000 N & Controlled solubility lubricants

| Grade            | Appearance   | Operating Temp °C | Penetration Unworked. | Drop Point °C | Flammability After flame subtraction | Fire point °C | Auto Ignition °C | NLGI |  |
|------------------|--|-------------------|-----------------------|---------------|--------------------------------------|---------------|------------------|------|--|
| A201             | Pale green   | -20 to 150        | 270-290               | >300          | Self Extinguishes                    | >300          | >500             | 1-2  | Mechanical Lubricant FireSafe Lubricating grease   |
| A202             | Pale green   | -20 to 150        | 240-260               | >300          | Self Extinguishes                    | >300          | >500             | 2-3  | Mechanical Lubricant FireSafe Lubricating grease<br>Eg For underground mining equipment and near hot equipment and inflammables & explosive gases  |
| A210             | Pale beige   | -30 to 180        | 250-270               | >300          | Self Extinguishes                    | >300          | >500             | 3    | Mechanical Lubricant Flame Resistant Lubricating grease<br>Extreme pressure Lubricating Compound with fluoropolymer additions for higher lubricity, maximum maximum chemical resistance and for low temperature applications |
| A220             | Silver grey  | -20 to 150        | 240-260               | >300          | Self Extinguishes                    | >300          | >500             | 3    | Mechanical Lubricant Extreme Pressure Lubricating compound with extreme wear resistant organic & inorganic molybdenum compounds for maximum point load resistance  |
| A230             | Pale beige   | -30 to 200*       | 240-260               | >300          | Self Extinguishes                    | >350          | >500             | 3    | for maximum point - load resistance  |
| <b>Packaging</b> | 500gm jars, & 5 kG canisters, 20* and 60 kG. steel containers. * 20kG pails are supplied standard tapered, but are available to order with parallel sides enabling use of pumping equipment with pressure, follower & eductor plates |                   |                       |               |                                      |               |                  |      |  |

## COMPATIBILITY WITH METALS & ELASTOMERS

TRANZ FireSafe® A200 Series greases have shown a wide, general, but non-specific compatibility with most metals and elastomers used in bearings and seals but customers are advised that they must carry out their own verification on their precise systems.

TRANZ Lubricants cannot assume any liability or responsibility for specific compatibility and makes no claims to this effect.

TRANZ FireSafe® greases may be compatible with other ester type lubricating products but clearly the special fire resist properties are absolutely compromised by the presence of dissimilar, non-suppressing materials. A210, A22, & A230 especially will not perform adequately if the presence of added foreign materials prevents concentration and spot foliation of their EP components at the wear and bearing points.

## HANDLING & CLEANING UP

FireSafe® TRANZ A200 greases are not water soluble but can be removed by solvents or formulated heavy duty cleaners. No specific dermatitic data is available but sensible work practice always requires the use of suitable hand and eye protection when using grease products. If the product is accidentally exposed to decomposition temperatures the fume should not be inhaled.

**PACKAGING** 500gm jars, & 5 kG canisters, 20\* and 60 kG. steel containers. \* 20kG pails are supplied standard tapered, but are available to order with parallel sides enabling use of pumping equipment with pressure, follower & eductor plates.

Other FireSafe® TRANZ products include FireSafe® TRANZ Q45-5 Electrical Conducting Compound for high tension electrical connectors and switchyard use.