

# Introducing Composite IdlerRolls

- Combats roll degradation typically found in corrosive and abrasive environments
- Longer lasting rolls reduces conveyor downtime
- Lighter weight rolls – “Field Friendly” for maintenance and installation personnel
- Prolongs belt life by reducing material build-up



Dimensional specifications match our CEMA C, D and E series steel products.



## Composite Idler Roll Advantages

- Excellent Strength
- Lighter Weight
- Superior Toughness
- High Corrosion Resistance
- High Abrasion Resistance
- Reduced Material Build-Up
- Low Coefficient of Thermal Expansion
- Environmentally Friendly



*Ideal for replacement of steel rolls in corrosive environments.*

## SYNTRON'S® COMPOSITE IDLERS PROVIDE ADVANTAGES OVER TRADITIONAL IDLERS



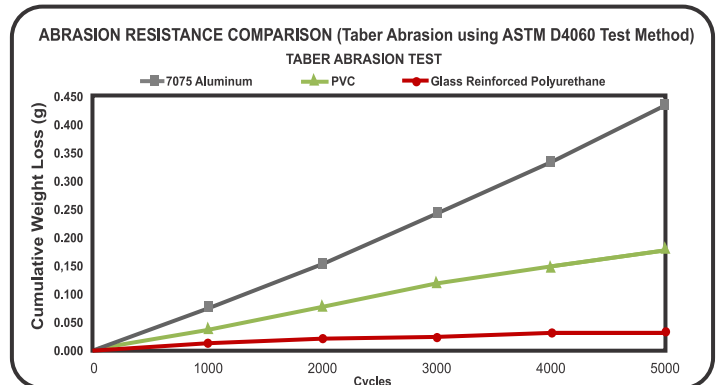
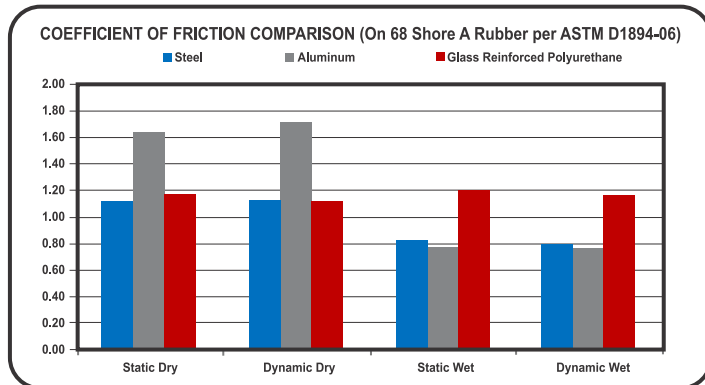
**Industry:** Aggregate and Cement

**Application:** Overland Conveyors

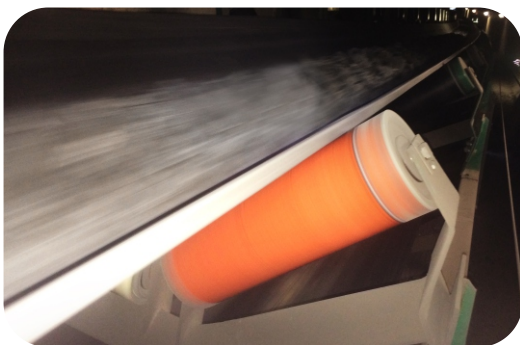
**Objective:** Need for long lasting, lightweight, and good resistance to abrasion and coefficient of friction.

**Challenge:** This overland conveyor had a need for long lasting, lightweight, idlers that were highly abrasion resistant and coefficient of friction. Most composite rolls are made from UHMW, Nylon or PVC. Overall lightweight rollers have the advantage, however they are not nearly as strong (too much deflection on wider widths) and they don't provide a good resistance to abrasion. The coefficient of friction is also poor, especially in wet conditions, which makes it more difficult to track or train the conveyor belt.

**Solutions:** Syntron's® composite idlers are manufactured from a combination of advanced engineered material with integrated UV protection that combines an ultra-strong polyurethane resin and fiberglass matting. This advanced engineered material has demonstrated nearly 4 times the abrasion resistance of PVC idlers and coefficient of slightly greater than steel for better belt tracking. Nearly 50% lighter than traditional steel rolls. Easier installation, "field friendly", for maintenance and installation personnel, energy savings and reduced noise.



**Results:** A lightweight cost-effective long life idler that is safer, more efficient and more productive than traditional steel, PVC, Nylon, or HDPE idlers.



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