

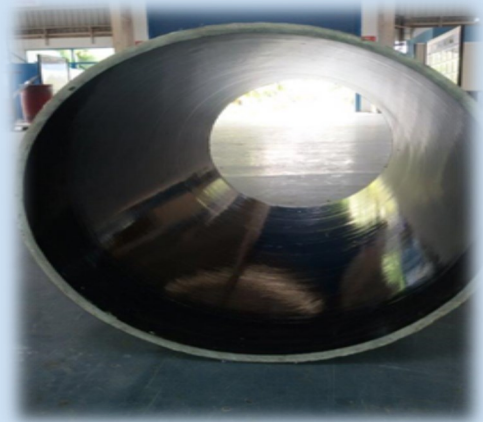


# CUMI WEARSHIELD

## WEAR RESISTANT COMPOSITE PIPES & FITTINGS



- ❖ Corrosion & Wear resistant composite pipes for chemical and mineral process industries.
- ❖ Smooth seamless interiors for trouble free conveying of powders , slurries and liquids.
- ❖ Demonstrated to enhance life of structures such as Flue Gas De-sulphurisation (FGD) units, effluent treatment systems & fly ash conveying systems in power industries.



**WE PROTECT ...**

**WE RESTORE ...**

**WE INNOVATE ...**

### OPTIMAL DESIGN FOR ENHANCED LIFE

- ◆ **Inner barrier surface:** Specially formulated hard, abrasion resistant fillers impregnated in resin and reinforced with “C” glass.
- ◆ **Structural Layer:** Designed using appropriate resin & winding pattern to withstand the loads caused by pressure, wind, seismic and other conditions.
- ◆ **Outer Layer:** Designed to withstand aggressive exterior environments through a specially formulated seal coat

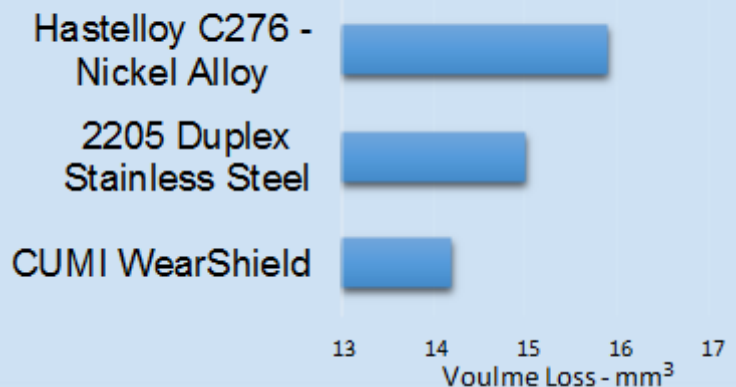
Property	CUMI Wear Shield
Specific gravity	1.8 - 2.1
Tensile Strength, MPa	170 – 345
Flexural Strength, MPa	138 – 276
Compressive Strength, MPa	138 – 164
Hazen Williams coefficient	150
Barcol Hardness ( BHU)	27 – 45

### Features and Applications:

- ❖ Excellent Wear Resistance demonstrated in high speed slurry conveying processes
- ❖ Maintains the corrosion resistance feature of FRP composite pipes
- ❖ **WearShield** pipes weigh as little as 1/6th of steel pipes & 1/20th of concrete pipes.
- ❖ Ability to design seamless inner surfaces for trouble free flow over long distances.
- ❖ Demonstrated to provide superior benefits in flue gas desulfurization (FGD) systems



### **Wet Slurry Erosion Test**



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