

Cost savings using Derrick[®] Polyweb[®] dry urethane (DU) screens

- Up to 10 times screen life of comparable wire screens
- Increased product output by over 10%
- Dramatic reduction in maintenance cost

Background

The highly abrasive characteristics of 20 to 120 mesh silica sand were causing rapid wear of wire mesh screens, resulting in screen failure in a relatively short time period. In fact, average failure of wire screens was occurring in 3 to 5 weeks at a flow rate of 20 t/h.

Solution

To solve the premature wear problem of wire screens, the customer installed Polyweb[®] DU panels on its 16 Derrick[®] Dry Sizers. These machines were in service for classifying dry hydraulic fracturing (fracking) sand. With the DU panels installed, the machines were able to run non-stop for 5 months with no lost production time due to panel changes. This factor alone increased total product output by over 10 percent!

Conclusion

Derrick successfully applied its expertise in wet screening applications to the more precise specifications required for screening/ final polishing of dry materials. Today, a wide variety of high open area urethane screens are manufactured by Derrick to meet specifications previously believed to be unattainable.



Polyweb DU panels classifying dry hydraulic fracturing sand

These Polyweb DU panels are available in both standard rectangular openings and “sq” square openings where the product specification requires holding a tolerance of less than 1 to 2 percent.

For more information, please contact your local Derrick sales representative.

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