Wiremesh Substrates for Enhanced Particulate Oxidation and Efficient Urea SCR NOx Reduction (P 20)

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Design Targets

- Low Back Pressure
- Low Weight
- High Performance
- High Value Target
  - (Performance/Cost)
Wiremesh Substrate Advantages

- Provides faster improvement of uniformity index through longitudinal and radial flow.
- Provides high heat and mass transfer co-efficient and higher molecular collision due to torturous and turbulent flow path
- Acts as a static mixer for urea SCR reaction
- Avoids crystallization of urea on the substrate
- Better performance at any given NH$_3$ / NOx ratio due to rapid substrate warm up
- Reduces particulates by oxidation
- Reduces the back pressure of the system
- Provides high thermal shock resistance
- Custom flexible for integrated system design