



Sintered Metal Filter SMF®

Examples for Applications of Sintered Metal Filters (SMF®)



Racetruck



VW Golf 1.9 TDI



Peugeot 406 Hdi FAP



Mercedes Benz Citaro



Bagger

Examples for SMF® Design



Comparison of SiC and SMF®



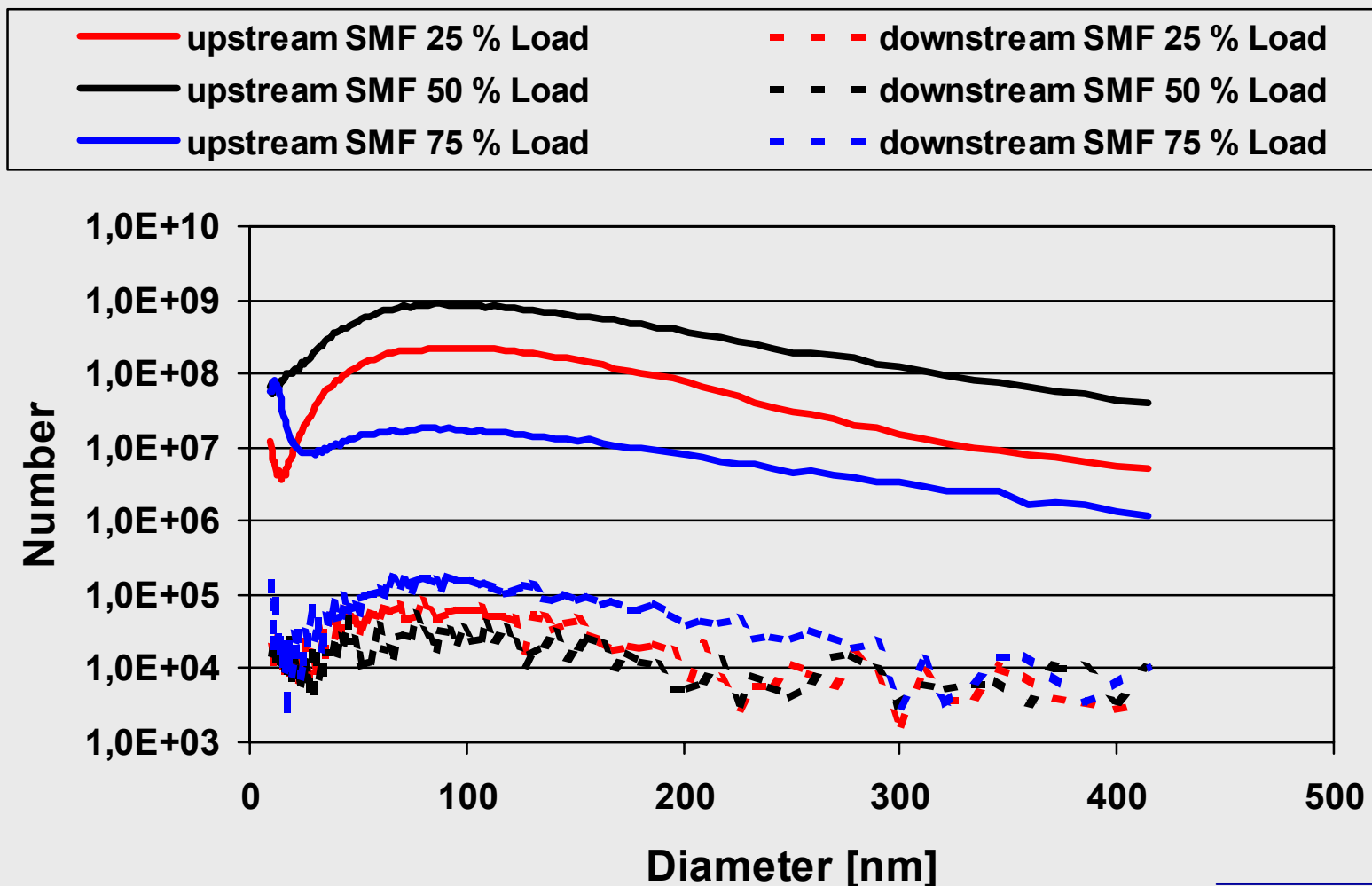
SMF (Jetfilter)

SiC 5,66*9" (PSA 406)

Flow Principle of a Jet-Filter



Particulate Size Distribution with SMF®



System Comparison Silicon Carbide vs. Sintered Metal



SMF- Modul

SiC-Filter

Ø 150*250 mm

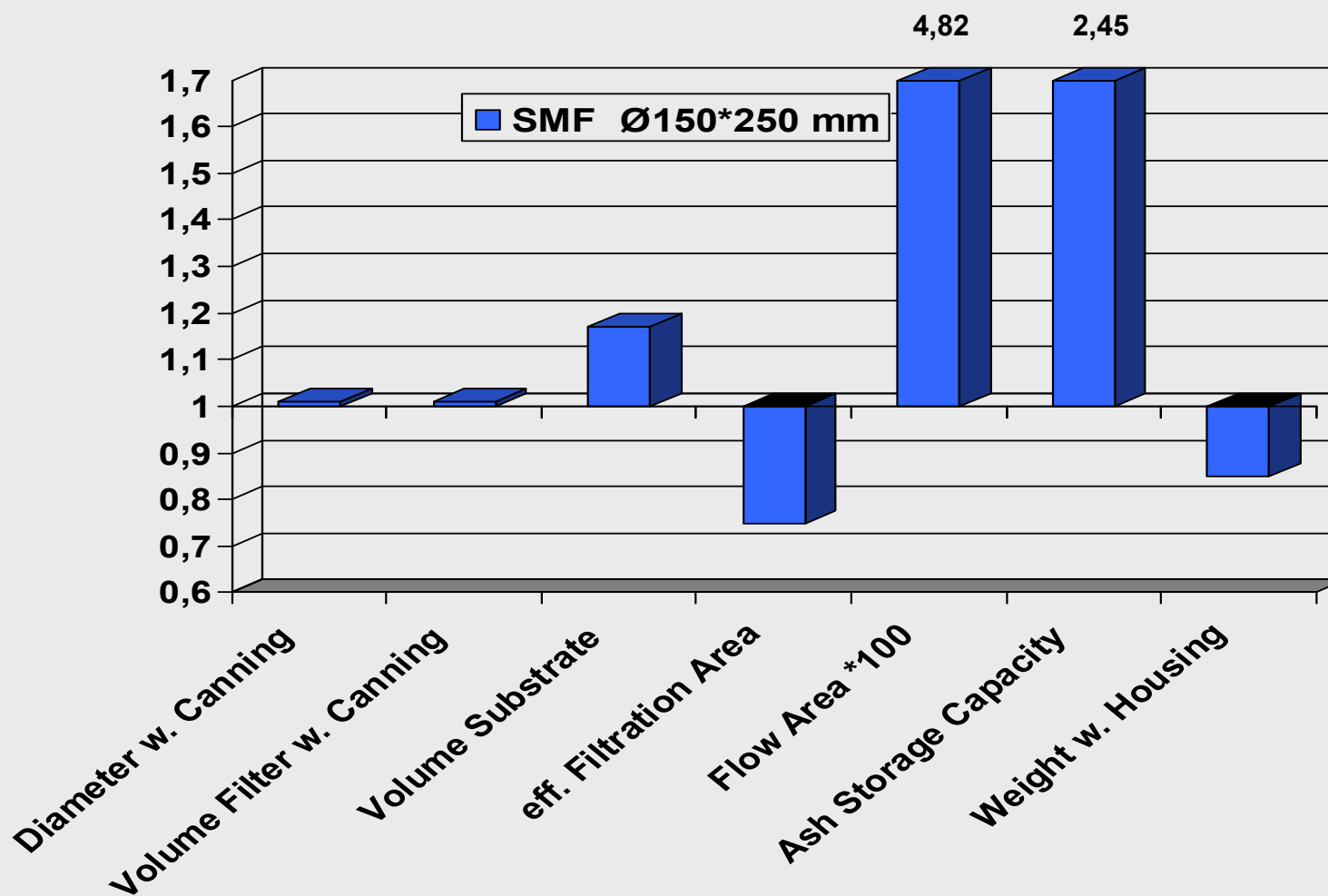
5,66*9"



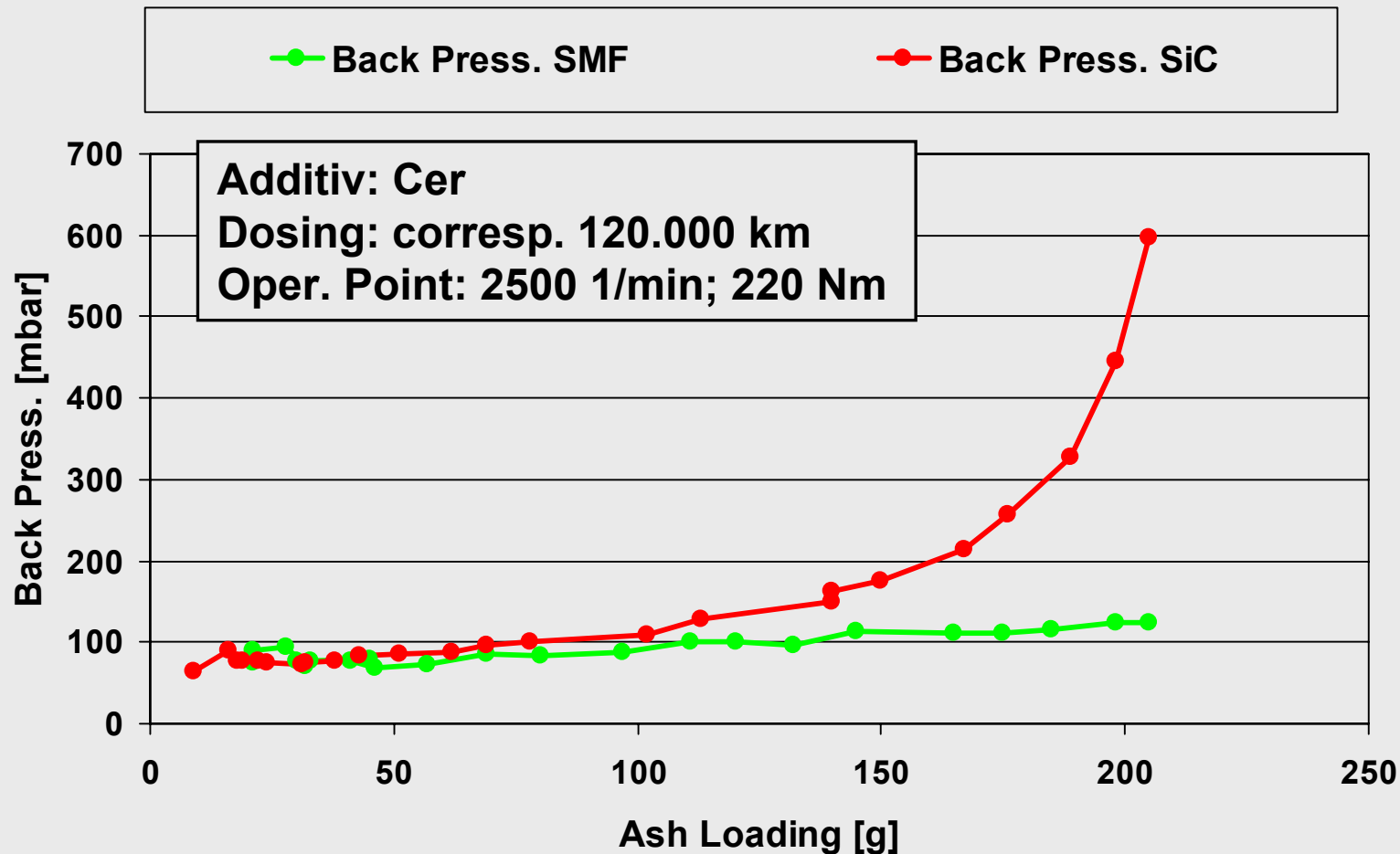
SMF Unit

SiC-Filter

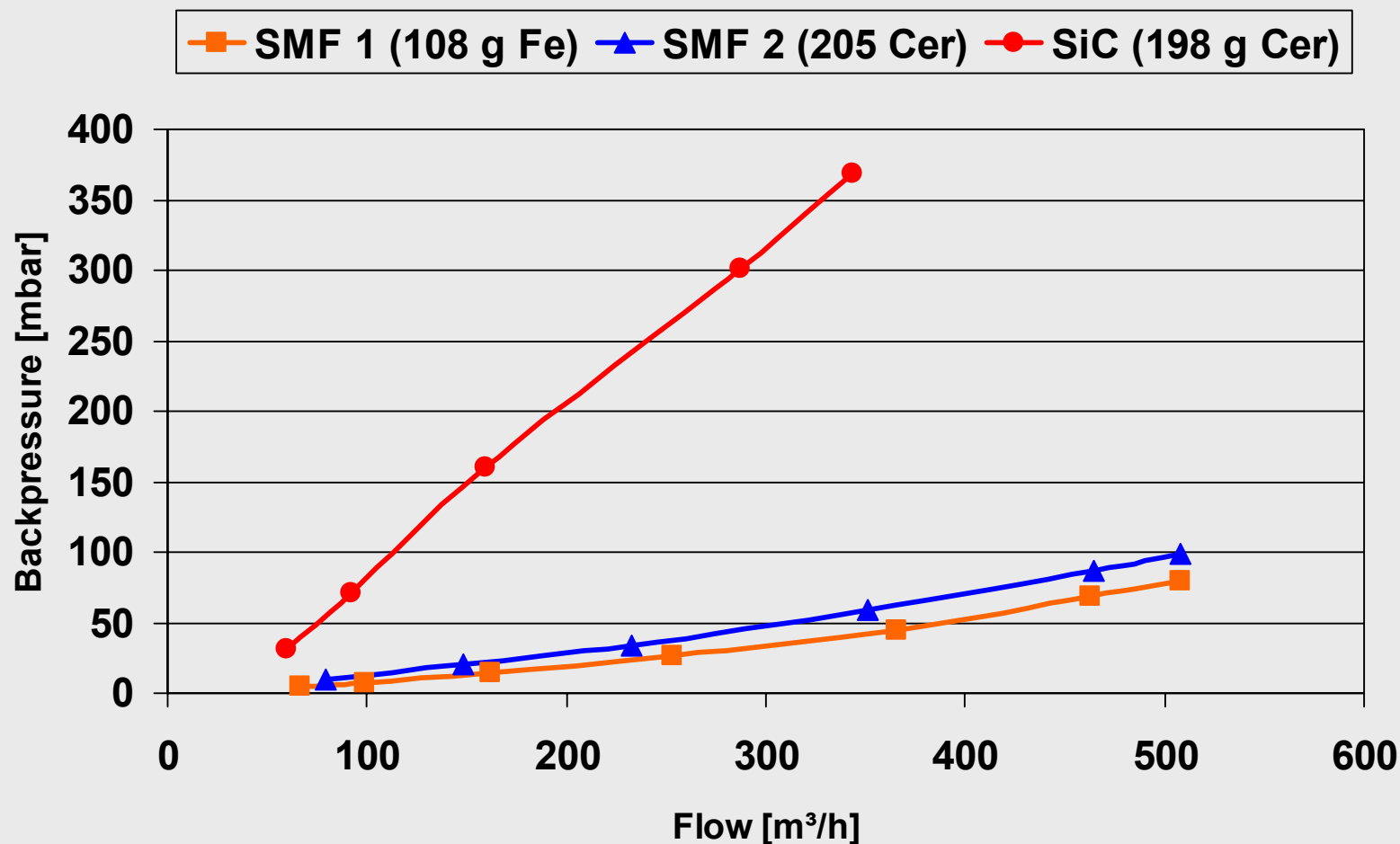
Comparison of SMF® and SiC (Basis: SiC 5,66*9“)



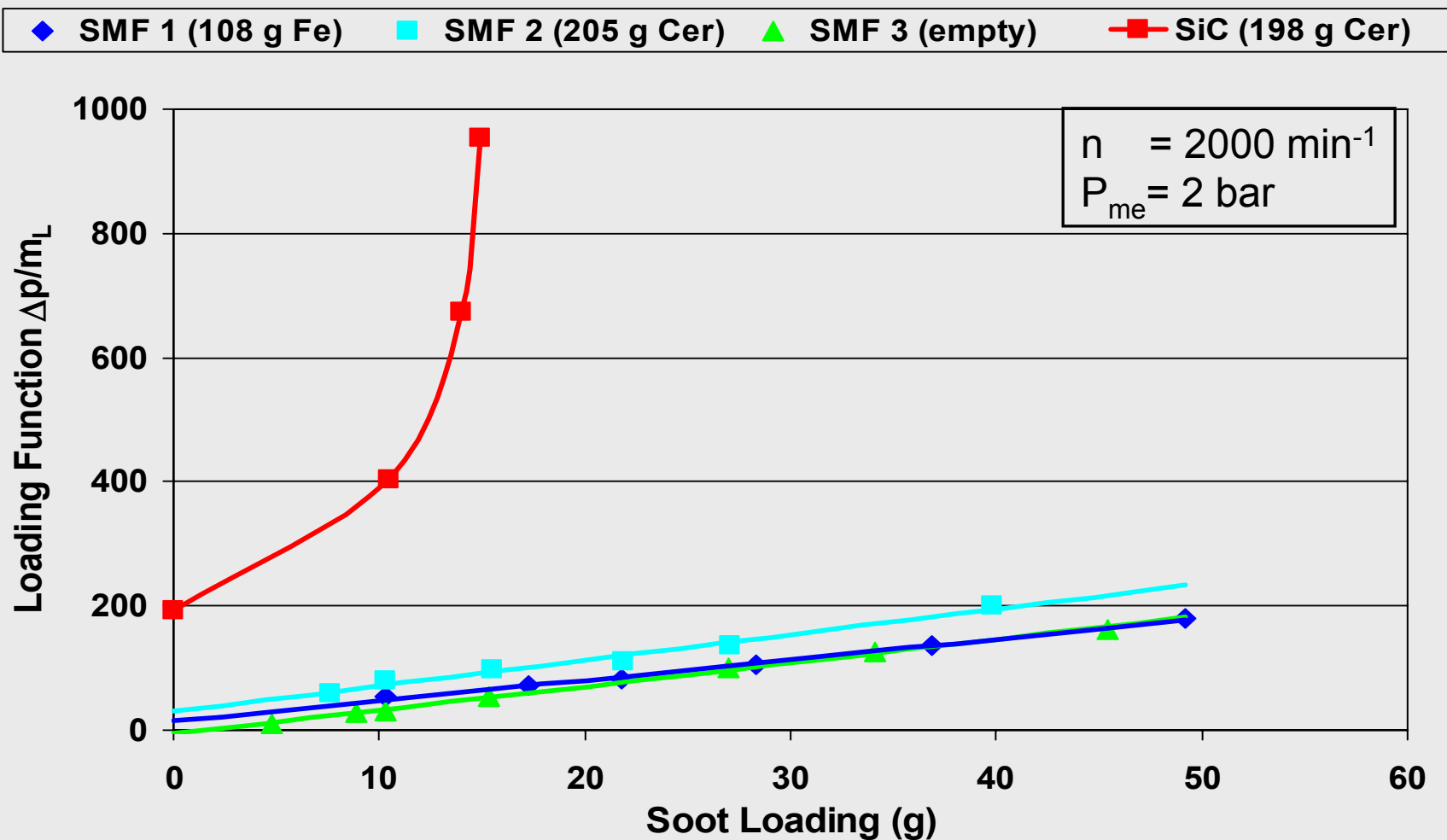
Back Pressure vs. Ash Loading



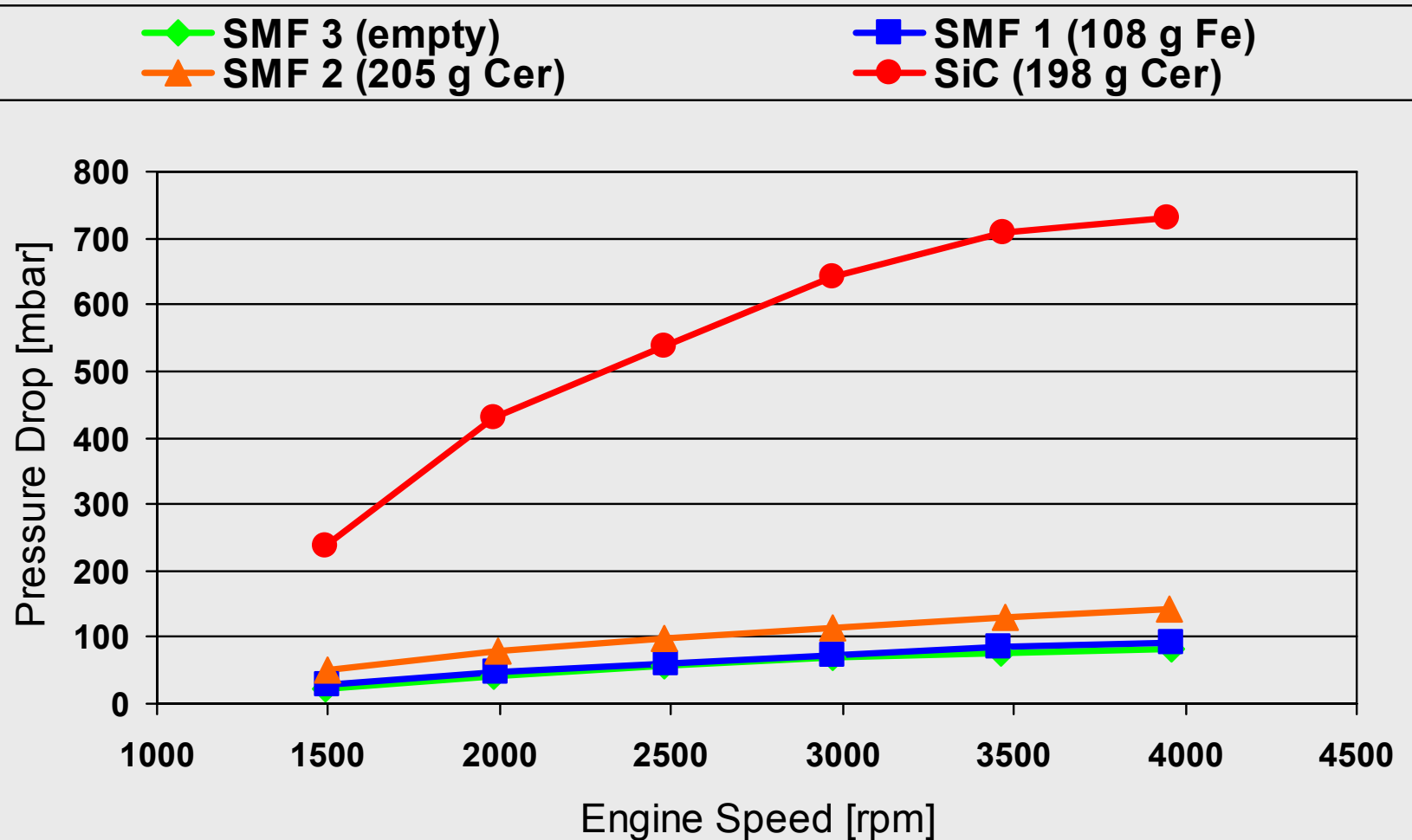
Backpressure of different Filter-Systems after Ash-Loading Cycle (Flow Bench)



Soot Sensitivity of Ash-Loaded Filters



Pressure Drop of Different Filters at Full Load (1.9 l Engine)



Advantages

- Filter efficiency 99%
- Optimal gas flow
- Low exhaust gas back pressure
- High ash storage ability
- Modular self supporting design
- Individual application for design volume
- Easy to clean
- Low cost canning
- Simple recycling

Fields of application

- Construction machinery
- Passenger cars
- Retrofit commercial vehicles