

Copper Use Reporting Program Model Year 2005 Update

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Purpose of the Report

- Track trends in the use of copper in original equipment automotive brake pads.
 - Possible mechanism to verify BMC members' compliance with the commitment for original equipment suppliers.

* BMC= Brake Manufacturers Council

Data Strengths

- **Best data available.**
 - Proprietary data provided by the actual manufacturer.
- **Coverage.**
 - Reliable information on approx. 40% of total car and truck sales in each model year.
- **Trend indicator.**
 - Indicates trends in the use of copper in brake pads.

Data Limitations

- **Coverage**
 - ~60% of new cars sales not included
 - The data covers new cars and light trucks. It does not include usage in:
 - Aftermarket (replacement) brake pads
 - Motorcycles
 - Heavy duty trucks
 - Off-road vehicles
 - Rail cars

Copper Monitoring Results

Model Year	1998	1999	2000	2001	2002	2003	2004	2005
Copper per vehicle (kg)	0.0402	0.0517	0.0564	0.0561	0.0766	0.0769	0.0650	0.0662
Friction material per vehicle (kg)	1.406	1.314	1.256	1.238	1.183	1.161	1.241	1.206

- Evidence of a slowing of the shift in material type from semi-metallic to NAO/Low Steel friction materials.