



**Asphalt Rubber Italia**

## **ASPAHLT-RUBBER AIR QUALITY**

Breathe a sigh of relief!

Asphalt-Rubber pavements use thousands of scrap tires every mile reducing the potential



for tire fires. Because smoke from tire fires is very harmful, some believe that the granulated tire rubber mixed with hot asphalt cement must be harmful as well. That is not the case. The rubber material is never processed in temperatures high enough to cause the tire rubber to smoke or burn.

**The rubber particles are not small enough to become volatile or air borne as particulate matter or PM10.**

Tracy Tire Fire, California 1999, photo courtesy of the Sacramento Bee, photographer Bart Ah You

Fume emissions studies from asphalt-rubber manufacturing and paving sites have been conducted routinely by state and federal air quality and health professionals since 1992. Every time, asphalt-rubber has been found to be the same as conventional, unmodified asphalt even when rubberized asphalt pavements were recycled.

The use of asphalt-rubber paving strategies can reduce the emission from trucks that haul the material to the paving site because the material can be placed in thinner layers.

**It's easy to calculate: Asphalt–Rubber = Less Tons + Less trucks + Less Emissions**

**Its clear from the studies cited below, A-R emissions are similar to other asphalt products:**

Air Pollutant Emissions Test Asphalt Plant Baghouse Stack  
San Antonio, Texas  
Southwestern Laboratories, Houston, Texas  
July 1992

Evaluation of Exhaust Gas Emissions and Worker Exposure  
from Asphalt-Rubber Binders in Hot Mix Asphalt Mixtures  
Kathryn O’C. Gunkel  
Wildwood Environmental Engineering Consultants, Inc.  
Michigan Department of Transportation 1994

NIOSH HEALTH HAZARD EVALUATION REPORT: HETA  
#2001-0536-2864  
Crumb-Rubber Modified Asphalt Paving: Occupational  
Exposures and Acute Health Effects  
2001

California Stack Emission Testing of Asphalt-Rubber and Conventional Asphalt Concrete  
Bay Area Air Quality Management District  
Northern California Rubberized Asphalt Concrete Technology Center  
February 5, 2002



Rubber does not cause smoke at hot-plants, above, a hot plant during production of A-R. near Tucson, AZ.

[www.rubberpavements.org/benefits/airquality](http://www.rubberpavements.org/benefits/airquality)

