

March 2008

LETCAST Tip of the Month

When attempting to change from a High Emission organic solvent core sand binder system to a Low Emission water based binder, the following tips can help:

- **Start with the easiest to make cores.** Too often, significant time and resources are wasted because the foundry tried to make its most difficult cores before the mixing and core making differences are understood. The foundry usually needs to learn how to compensate for these differences. After all, not many core room employees start out racing Formula One race cars either. We estimate that if we only made the easier cores with Low Emission Technology, we could still lower the total foundry emissions from cores over 40%.

For more information, contact a LETCAST supplier.

LETCAST Myth of the Month

“Phenolic Urethane resins with “bio-diesel” types of solvents are not compatible with green sand systems that use Advanced Oxidation because of gas defects.”

Nothing could be further from the truth. The proper use of Advanced Oxidation actually REDUCES gas defects from cores and green sand because the foundry does not need to specify as high a combustible level in its green sand’s premix to provide acceptable surface finish and to prevent expansion defects. This reduces the overall gas level in the mold. However, thanks to our continuous research, we have also learned innovative methods to reduce the gas generated from the use of Phenolic Urethane resin types of cores.

For more information, contact a LETCAST supplier.