

Abstract for AIMCAL Europe 2016 Technical Conference

Title

AlOx - a bright past but do we need to protect the future??

Abstract

Transparent barrier coated films have been with us for many years now and probably before some of our AIMCAL members joined our industry! So, here's a brief walk through the history of vacuum deposited transparent barrier films, including the different technology options, early processing issues and some of the original barrier differences.

I'll then move onto how the current process was improved and developed into the AlOx what we're producing today, inc performance criteria, specs, applications, problems and issues with a non-coated vacuum deposited AlOx.

I'd then like to discuss our research and development into in-chamber top coated AlOx systems, including the challenges along the development path, the performance advantages we see, the conversion differences between un-coated and some of the potential applications. I'll also cover compliance issues. I'll finish by updating on the changes and advancements made over the past 12 months.

In addition I'd like to cover the potentially explosive issue of handling aluminium oxide shale, which from a health & safety point of view, is an issue that should be taken seriously to avoid potential damage to person and property.