**CASE STUDY**

**DriTek™ C Doctor Blade**

**Challenge**  
In certain applications, doctor blades can have limited contact area with the roll surface. While the doctor blade maintains a sharp edge, the roll surface is not always completely cleaned. This is most commonly found in applications where the contaminating layer on the roll surface is very thin or adherent (e.g., on calender rolls or last top dryers on coated grade machines).

**Solution**  
Kadant DriTek C doctor blades were installed and ran at multiple locations that had exhibited this problem prior to the DriTek C doctor blade installation. In each instance, the coating at the blade tip removed the offending layer and rendered a shiny roll surface. DriTek C doctor blades are composite-based thereby reducing the risk of sparking and fires.

**Results**  
On four recent installations at paper mills across the United States, the DriTek C doctor blades have:

- Eliminated “haze” on calender rolls
- Shed the sheet well
- Removed coating from the dryer surface, in some instances the DriTek C doctor blades were the only blade successful at keeping the can clean
- Significantly increased blade life compared to carbon blades
- Reduced the blade load requirement resulting in longer roll life
- Reduced sparking and risk of fire

**Highlights**

- When combined with a roll cleaner pad, DriTek C doctor blades are an efficient way to ensure a shiny calender.
- Proper cleaning and haze removal ensures high gloss and uniform temperature profile.
- DriTek C doctor blades can be used effectively where customer is concerned with fires and sparks.
- DriTek C doctor blades can extend roll life.

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![Calender before – Hazy](Image1)  
After installation of DriTek C blade – No Haze

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