

# Boost RO

## Ultra-Radiopaque Compounds

Compatible with typical catheter materials, including:

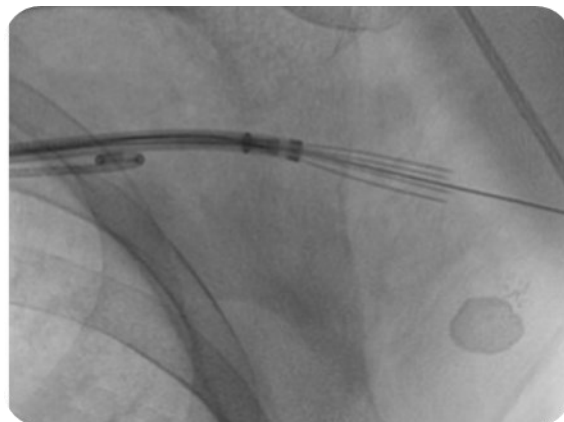
- Polyamides
- PEBA's
- HDPE
- LDPE
- LLDPE
- TPUs
- TPEs

**Boost RO** is a new proprietary radiopaque filler that can be used with typical catheter materials (see below). The Boost RO technology is mineral in nature, is biocompatible, colorable, and- when loaded at the same wt% as Barium or Bismuth- it shows up 165% and 65% (respectively) brighter under the fluoroscope.

**Boost RO+** can also be used with typical catheter materials (see below). The Boost RO+ technology is metallic in nature, is biocompatible, and when loaded at the same wt% as tungsten it shows up 85% brighter under the fluoroscope.

### Major Benefits:

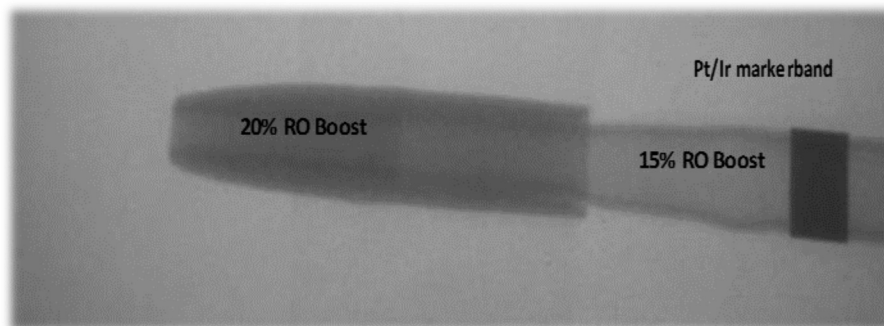
- ◆ Improved radiopacity at the same loading levels as traditional fillers
- ◆ Reduce the amount of filler needed to achieve the same radiopacity as traditional fillers
- ◆ Reduced risk of quality issues (ie. Bumps, nibs)
- ◆ Increased polymer amount in formulation aids mechanical property retention
- ◆ Increases ease of processing.
- ◆ Biocompatible (ISO 10993-5)
- ◆ Great for thin walled applications ( $\leq 0.005''$  WT)



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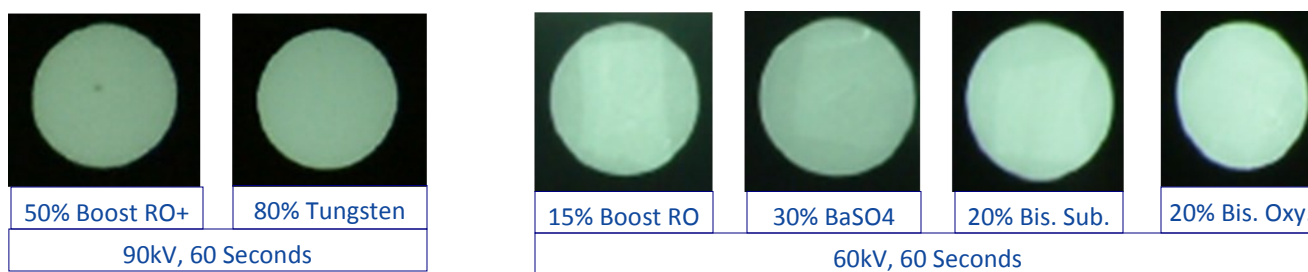


# Boost RO

	Filler	MFI (g/10 min)	Density (g/cm <sup>3</sup> )	Elastic Mod (ksi)	Yld Stress (psi)	Yld Strain (%)	UTS (psi)	Elongation @ Break
Pebax 6333 SA01 MED – Virgin	N/A	12.2 (Control)	1.0208 (Control)	26.7 (Control)	2760 (Control)	28% (Control)	6550 (Control)	490% (Control)
Pebax 6333 SA01 MED	30% / BaSO <sub>4</sub>	22.3 (+83%)	1.3063 (+28%)	36.0 (+35%)	3330 (+21%)	24% (-14%)	5250 (-20%)	450% (-8%)
Pebax 6333 SA01 MED	15% / Boost RO	17 (+40%)	1.1458 (+12%)	32.0 (+20%)	3180 (+15%)	28% (No change)	6690 (+2%)	480% (-2%)
Pellethane 2363-55D – Virgin	N/A	25.8 (Control)	1.1622 (Control)	10.0 (Control)	N/A	N/A	7670 (Control)	460% (Control)
Pellethane 2363-55D	30% / BaSO <sub>4</sub>	32.2 (+25%)	1.4807 (+27%)	15.1 (+51%)	N/A	N/A	6710 (-12.5%)	380% (-17%)
Pellethane 2363-55D	15% / Boost RO	27.7 (+7.5%)	1.3276 (+14%)	12.6 (+26%)	N/A	N/A	6800 (-11.5%)	310% (-33%)

\* (+/- x%) = % change from control

## Optical Density of Boost RO vs Standard RO Filler Loadings



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