

**CST MEDIA DATA SHEET**

<b>No.</b>	<b>By</b>	<b>Chk</b>	<b>App</b>	<b>Date</b>		<b>Doc. No.: DS-1813-06</b>	<b>Rev.: 0</b>
0	JS	DL	TB	6/11/19	Initial Release	<b>Project Name: TSCR</b>	
						<b>Project Number: 18-13</b>	
						<b>Location: Richland, WA</b>	

<b>MATERIAL INFORMATION</b>		
1	Material	Crystalline silicotitanate with zirconium hydroxide binder
2	Description	Non-elutable bead form (engineered) media for selective cesium removal in packed bed ion exchange column
3	Supplier	Honeywell UOP
4	Supplier Product No.	<u>OPTION 1:</u> R9120-B, Hydrogen form CST (to be backwashed, converted to sodium form and rinsed at AVANTech's facility) <u>OPTION 2:</u> R9140-B, Sodium form CST (to be backwashed and rinsed at AVANTech's facility)
5	Particle Size	-18 / +50 US mesh
6	Bead Shape	Approximately spherical (spheroidal)
7	Bulk Density	OPTION -1: R9120B --> 900 kg/m <sup>3</sup> , (56 lbs/ft <sup>3</sup> ) OPTION -2: R9140B --> 1090 kg/m <sup>3</sup> , (68 lbs/ft <sup>3</sup> )
8	Moisture Content	16 - 20wt%
9	Operating pH Range	0 to 14+
10	Packaging	Steel drums containing ≈ 150 kg CST
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14		NOTE: CST supplied for Phase 1 TSCR operations will be UOP Product No.: R9140-B, Na+ form CST
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