



## Product Specification

**Chemical Name:** [(4,5-Bis(diphenylphosphino)-9,9-dimethylxanthene)-2-(2'-amino-1,1'-biphenyl)]palladium(II) methanesulfonate

XantPhos Pd G3

**CMI Product Code:** 5165

**CAS Number:** 1445085-97-1

**Formula:** C<sub>52</sub>H<sub>45</sub>NO<sub>4</sub>P<sub>2</sub>PdS

**Formula Weight:** 948.35 g/mol

**Theoretical Pd %:** 11.2%

PARAMETER	SPECIFICATION
Pd Assay	11.2 ± 1.0 %
Chemical Purity	≥ 95% (based on <sup>1</sup> H and <sup>31</sup> P NMR excluding solvent)
Infrared Spectrum	Conforms to structure
<sup>1</sup> H NMR	Conforms to structure
<sup>31</sup> P NMR	Conforms to structure
Residual Solvent	<10% Residual Solvent (Determined by <sup>1</sup> H NMR)
Appearance	Yellow to green solid

**Reviewing Chemist:** Dr. Bryan Frauhiger, Ph.D., Organometallic Technical Director: BEF

**Specification Approval:** Dr. Ernest Addo, Ph.D., Director of Quality & Analytical Testing: EA

**Specification Revision Date:** September 26<sup>th</sup>, 2021

**Revision Level:** 1

Colonial Metals warrants, that at the time of product release this product conformed to the information contained on this specification sheet. Purchaser must determine the suitability of the product for its particular use.