



## Product Specification

**Chemical Name:** XPhos Pd G4  
**CMI Product Code:** 5178  
**CAS Number:** 1599466-81-5  
**Formula:** C<sub>47</sub>H<sub>64</sub>NO<sub>3</sub>PPdS  
**Formula Weight:** 860.47 g/mol  
**Theoretical Pd %:** 12.4%

| PARAMETER           | SPECIFICATION                                                              |
|---------------------|----------------------------------------------------------------------------|
| Pd Assay            | 12.4 ± 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    | ≤ 5.0 weight % (by <sup>1</sup> H NMR)                                     |
| Appearance          | Off white to light yellow 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:** 0

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.