Reviewer 2:

1. How long is the coating time for the CoNiCrAlY bond coat to achieve 100 microns? How long is the coating time for the NiCoCrAlY-Cr2O3-AgMo coating to achieve 100 microns?

Response: Thanks for the suggestions. Under the spraying process parameters in this paper, it takes 30 min to prepare a 100 μm thickness coating on a size of 20 cm *20cm substrate. In addition, the preparation time of NiCoCrAlY-Cr2O3-AgMo is almost same as that of CoNiCrAlY.

2. Merging Tables 2 and 3 could help the readers to better compare the chemical compositions of GH4169 and GH605.

Response: Thanks for the suggestions. We set Table 2 and Table 3 according to the order in which GH4169 and GH605 appeared in the paper, which was also convenient for readers to read and not easy to confuse. Thus. We did not merge the two tables.

3. There is a missing reference in page 4 line 171. 3.

Response: Thanks for the suggestions. We have modified this reference in the manuscript.

4. Figure 1, please show the orientation of the cross-section in (c).

Response: Thanks for the suggestions. We have modified the Fig.1 in the manuscript.

5. How many experimental replicates were performed for each sample for the friction and wear tests? Please show the uncertainties in the data presented.

Response: Thanks for the suggestions. In order to reduce experimental errors, each group of friction experiments was repeated three times, in which the volume wear rate was averaged.

Reference

1. Chen, G.-D., et al., Fabrication and tribological properties of laser cladding WC-Cu/Co-based composite coatings. Surface and Coatings Technology, 2023. 472: p. 129930.

2. Bai, L., et al., Comparison of tribological performances of plasma sprayed YSZ, YSZ/Ag, YSZ/MoO3 and YSZ/Ag/MoO3 coatings from 25 to 800 °C. Wear, 2023. 526-527: p. 204944.

3. Pereira, J., et al., Tribology and high temperature friction wear behavior of MCrAlY laser cladding coatings on stainless steel. Wear, 2015. 330-331: p. 280-287.