

SUPPLEMENTARY MATERIALS:

Crystal structure of monoclinic $\text{Al}_{45}\text{Cr}_7\text{C}_{0.32}$

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Small amounts of carbon in the educts as well as in the employed metals were analyzed by a CS-8800 type infrared Carbon and Sulphur analysis instrument (Figure 1s). The analysis results are listed in Table 1s:



Figure 1s: CS-8800 type infrared Carbon and Sulphur analysis instrument

Table 1s: Carbon analysis results

	Metal Al	Metal Cr	Product
Weight of sample (g)	0.2122	0.1363	0.0790
Carbon contents (at.%)	0.014	0.023	0.065

From Table 1s we can deduce that the educts were contaminated by small amount of carbon present as impurities that eventually diffused into the product.