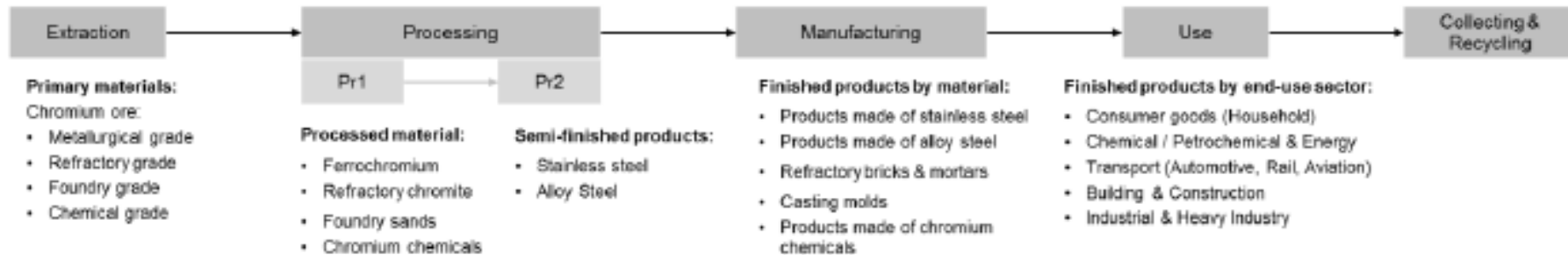


# Chromium

Chromium ore is extracted, beneficiated and separated into distinct grades. The main primary material is metallurgical-grade chromium ore, which is processed into ferrochromium. Ferrochromium is used, along with scrap, to produce stainless steel and alloy steel. The finished products can be found in all end-use sectors with a dominance in consumer goods for households (cutlery, kitchen surfaces, cookware, appliances, sinks, etc.). Refractory-grade chromium ores are processed into refractory chromite and are used to manufacture refractory bricks and mortars, whereas foundry-grade chromium ores are processed in foundry sands and used for the production of casting molds. Most of the final applications are in the heavy industry (iron and steelmaking, foundries). The main processed materials from chemical-grade ore are hexavalent sodium dichromate and chromium trioxide (both toxic and carcinogenic). These chemicals are manufactured into other chromium compounds (such as chromium (III) oxide, “chrome green”) with various final applications (leather tanning, chrome plating, pigments...). In particular, chromium (III) oxide is used to manufacture chrome metal, necessary for super alloys in the aviation and energy sector (e.g. gas turbine).



โซ่คุณค่าของ Chromium