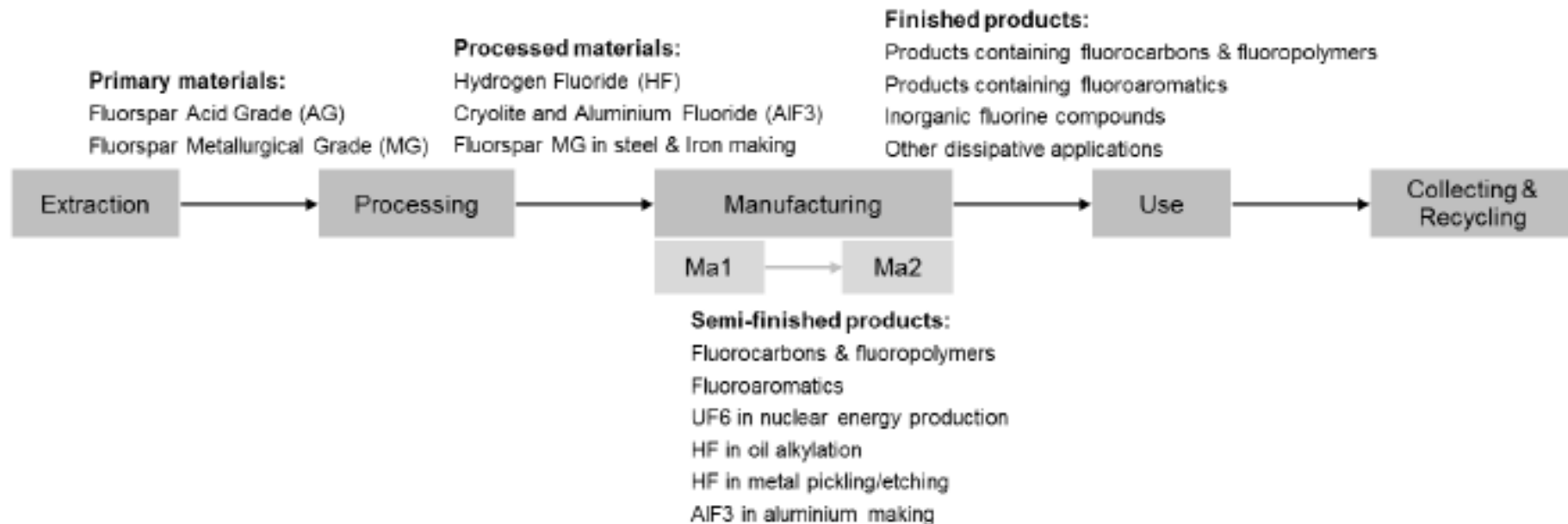


# Fluorspar

After extraction, fluorspar ore is directly transformed into fluorspar acid grade (AG) and metallurgical grade (MG). Those primary materials are then processed into hydrogen fluoride (HF), cryolite and aluminium fluoride (AlF<sub>3</sub>). Fluorspar MG is also used in iron and steel making, but is not incorporated in the iron and steel products. The processed material HF is converted into semi-finished products such as fluorocarbons, fluoropolymers, fluoroaromatics and uranium hexafluoride (UF<sub>6</sub>, used in nuclear energy production) or is directly converted into finished products such as inorganic fluorine compounds. HF is also used for etching and pickling of metals and for alkylation process in oil refining but for these 2 applications there is no F element in the final products. In the same way, cryolite and aluminium fluoride are used for aluminium processing but are not incorporated in aluminium alloys. Fluorocarbons, fluoropolymers and fluoroaromatics are used in finished products in various applications such as cable insulation, fire protection, refrigerants, pharmaceuticals, etc. The figure below presents the value chain of fluorspar with the main uses.



โซ่คุณค่าของ Fluorspar