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(54) Title: COGEL CONTAINING OXIDIC COMPOUNDS OF TETRAVALENT, TRIVALENT, AND DIVALENT METALLIC ELEMENTS (57) Abstract The invention pertains to a cogel comprising oxidic compounds of one or more trivalent metallic elements selected from the group of aluminium, borium, gallium, chromium, iron, cobalt, manganese, vanadium, molybdenum, tungsten, indium, rhodium, scandium, or mixtures thereof, oxidic compounds of one or more tetravalent metallic elements selected from the group of silicon, titanium, germanium, or mixtures thereof and oxidic compounds of one or more divalent metallic elements which are not exclusively selected from Group VIII non-noble metallic elements, wherein a) apart from optionally present saponite, the cogel is essentially X-ray amorphous; b) the saponite content C_A of the cogel is less than 60 %; c) the cogel has a surface area of at least 400 m²/g; d) the cogel has a cation-exchange capacity of at least 0.5 wt.%; and e) the total of sodium and potassium contained in the cogel amounts to less than 0.5 wt.%, based on the total weight of the cogel.		