Impregnation

Chemicals	Quantity(wt%)	Activated carbona	Examples for application
Sulfuric acid	2-25	F 1-4mmØ	Ammonia, amine, mercury
Phosphoric acid	10-30	F 1-4 mm Ø	Ammonia, amine
Potassium carbonate	10-20	F 1-4 mm Ø	Acid gases (HCl, HF, SO2, H2S, NO2), carbon disulfide
Iron oxide	10	F 1-4 mm Ø	H2S, mercaptan. COS
Potassium iodide	1-5	F 1-4 mm Ø	H2S,PH3, Hg, AsH3, radioactive gases/radioactivemethyl iodide
Triethylene diamine (TEDA)	2-5	F 1-2 mm Ø G 6-1 6 mesh	Radioactive gases/radioactivemethyl iodide
Sulfur	10-20	F 1-4 mm Ø ,G	mercury
Potassium permanganate	5	F 3+4 mm Ø	H2 S from oxygen-lacking gases
Manganese IV oxide		G 6-16 mesh	Aldehyde
Silver	0.1-3	F 3+4 mm Ø G 8-30 mesh	F: phosphine, arsine G: domestic drinking water filters (oligodynamic effect)
Zinc oxide	10	F 1-4 mm Ø	Hydrogen cyanide
		F 0.8-3 mm Ø	Civil and military gas protection
Chromium-copper-silver salts	10-20	G 1 2-30 mesh	Phosgene, chlorine, arsine
		G 6-1 6 mesh	Chloropicrin, sarin and other nerve gases
Mercury I I chloride	10-15	F 3+4 mm Ø	Vinyl cliloride synthesis Vinyl fluoride synthesis
Zinc acetate	15-25	F 3+4 mm Ø	Vinyl acetate synthesis
Noble metals (palladium, platinum)	1-5	F, G, P	Organic synthesis, hydrogenation

Gas purification

Application fields:
Hydrogen sulfide
Mercaptan
Mercury
Ammonia
Amine
Acid gases (HCI, S02, HF, HCN)
Arsine
Phosphine
Aldehyde
Radioactive iodine
Radioactive methyl iodide
Nitrogen oxide

Civil and military gas protection

Application in gas masks, room filters and respiratory apparatus filters:
Sulfur dioxide
Hydrogen chloride
Hydrogen fluoride
Nitrogen oxide
Amine
Hydrogen sulfide
Mercury
Radioactive iodine
Radioactive methyl iodide
Phosgene
Hydrogen cyanide
Chlorine
Arsine
Sarin and other nerve gases

Catalysis

Application in catalysis:
Vinyl acetate synthesis
Vinyl chloride synthesis
Vinyl fluoride synthesis