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(54) Title (EN): ALKALI-FREE GLASS

(54) Title (FR): VERRE NON ALCALIN

(54) Title (JA): 無アルカリガラス

(57) Abstract:

(EN): Provided is an alkali-free glass which has a low compaction, a high strain point, and a high ultraviolet light transmittance, and is easy to melt. The alkali-free glass is characterized by containing, in mol% on an oxide basis, 65-75 of SiO₂, 9-15 of Al₂O₃, 0-3 of B₂O₃, 0-12 of MgO, 0-8 of CaO, 0-6 of SrO, and 0-5 of BaO, wherein MgO + CaO + SrO + BaO is 12-22, 4.84[Fe₂O₃] + 5.65[Na₂O] + 4.03[K₂O] + 4.55[SnO₂] is 0.55 or less, and a measured compaction is 80 ppm or less.

(FR): L'invention concerne un verre non alcalin qui a un faible compactage, un point de contrainte élevé, et une transmittance élevée de la lumière ultraviolette, et qui est facile à fondre. Le verre non alcalin est caractérisé en ce qu'il contient, en % en moles sur une base d'oxyde, 65-75 de SiO₂, 9-15 d'Al₂O₃, 0-3 de B₂O₃, 0 à 12 de MgO, 0 à 8 de CaO, 0 à 6 de SrO, et 0 à 5 de BaO, MgO + CaO + SrO + BaO étant égal à 12 à 22, 4,84[Fe₂O₃] + 5,65[Na₂O] + 4,03[K₂O] + 4,55[SnO₂] étant de 0,55 ou moins, et un compactage mesuré étant de 80 ppm ou moins.

(JA): コンパクションが小さく、歪点が高く、紫外線透過率が高く、かつ熔融が容易な無アルカリガラスの提供。酸化物基準のモル%表示で SiO₂ 65~75、Al₂O₃ 9~15、B₂O₃ 0~3、MgO 0~12、CaO 0~8、SrO 0~6、BaO 0~5、MgO+CaO+SrO+BaO が 12~22 であり、4.84[Fe₂O₃]+5.65[Na₂O]+4.03[K₂O]+4.55[SnO₂] が 0.55 以下であり、以下で測定されたコンパクションが、80 ppm 以下であることを特徴とする無アルカリガラス。

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