



THIS LETTER CERTIFIES THAT

Tosoh Quartz, Inc.Portland, Oregon, USA



TOSOH QUARTZ, INC.

has met ASM's quality standards and has obtained a license from ASM to manufacture and sell Licensed Products for use in ASM equipment as follows:

Licensed Products VF Quartz

ASM Equipment VF A400, VF A412, and VF A450mm prototype

This certification expires on December 31, 2025, contingent on Supplier continuing its obligations under ASM Qualified Licensed Supplier Program. Thank you for your continuous support.

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Dr. Han Westendorp

VP Corporate Marketing

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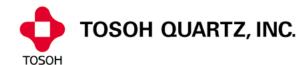
January 1, 2016





THIS LETTER CERTIFIES THAT

Tosoh Quartz, Inc.Stanley Co. Durham, UK



has met ASM's quality standards and has obtained a license from ASM to manufacture and sell Licensed Products for use in ASM equipment as follows:

Licensed ProductsVF Quartz

ASM Equipment VF A400, VF A412

This certification expires on December 31, 2025, contingent on Supplier continuing its obligations under ASM Qualified Licensed Supplier Program. Thank you for your continuous support.

an Westendorp

Corporate Marketing

January 1, 2016





THIS LETTER CERTIFIES THAT

Tosoh Quartz Co., Ltd. Tainan, Taiwan



has met ASM's quality standards and has obtained a license from ASM to manufacture and sell Licensed Products for use in ASM equipment as follows:

Licensed ProductsVF Quartz

ASM Equipment VF A400, VF A412

This certification expires on December 31, 2025, contingent on Supplier continuing its obligations under ASM Qualified Licensed Supplier Program. Thank you for your continuous support.

Han Westendorp

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VP Corporate Marketing

January 1, 2016