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Nota di contenuto	75th Conferenceon Glass Problems; Contents; Foreword; Preface; Acknowledgments; Glass Melting; EFFECT OF DISSOLVED WATER ON PHYSICAL PROPERTIES OF SODA-LIME-SILICATE GLASSES; ABSTRACT; INTRODUCTION; EXPERIMENTAL METHODS; Batching and melting; FTIR, UV-Vis transmission, and density measurements; Viscosity; RESULTS AND DISCUSSION; FTIR spectroscopy; Viscosity; UV-Vis transmission; Density; CONCLUSION; ACKNOWLEDGEMENT; REFERENCES; COMPARISON OF SEM/EDX ANALYSIS TO PETROGRAPHIC TECHNIQUES FOR IDENTIFYING THE COMPOSITION OF STONES IN GLASS; ABSTRACT; INTRODUCTION METHODS OF ANALYSIS AND EXPERIMENTAL PROCEDUREPetrographic Analysis; SEM/EDX Analysis; SUMMMARY OF RESULTS; DISCUSSION OF RESULTS; Case Study #1 - Stone Sample #1; Case Study #1 - Stone Sample #5; Conclusion from Case Study #1; Case Study #2 - Stone Sample #11; Case Study #2 - Stone Sample #24; Conclusion for Case Study #2; Case Study #3 - Stone Sample #7; Case Study #3 - Stone

Sample #8; Conclusion for Case Study #3; Case Study #4 - Stone Sample #14; Case Study #4 - Stone Sample #15; Case Study #4 Conclusion; CONCLUSIONS; CAUTIONS; ACKNOWLEDGEMENT; REFERENCES; Forming
MULTI GOB WEIGHT PRODUCTIONABSTRACT; INTRODUCTION; DEVELOPMENT; STANDALONE APPLICATION; TEST RESULTS; SUMMARY; CLOSED LOOP CONTROL OF GLASS CONTAINER FORMING; ABSTRACT; INTRODUCTION - THE NEED FOR CLOSED LOOP CONTROL; CHALLENGES FOR CLOSED LOOP CONTROL OF FORMING PROCESS; CLOSED LOOP CONTROL OF PARISON FORMING - PLUNGER UP CONTROL; Background; Parison forming process (Press and Blow or Narrow Neck Press and Blow); Measurement System; Closed Loop Control Strategy; System Integration; Results; CLOSED LOOP CONTROL OF BLANK SIDE THERMAL PROCESS - BLANK COOLING CONTROL; Background
Blank Cooling ProcessMeasurement System; Closed Loop Control Strategy; System Integration; RESULTS; OVERALL PERFORMANCE; SUMMARY AND CONCLUSIONS; REFERENCES; HARD GLASS - COMMERCIAL PROGRESS OF THERMALLY STRENGTHENED CONTAINER GLASS; ABSTRACT; ABSTRACT; INTRODUCTION; PROCESS DETAILS - THE HEATING CYCLE; PROCESS DETAILS - THE COOLING CYCLE; IMPROVED DURABILITY; LOOP TEST RESULTS CONDUCTED IN THE LABORATORY; ACTUAL FILLING LINE RESULTS; CONCLUSIONS; REFERENCES; Energy and Environmental; OXYGEN ENHANCED NOX REDUCTION (OENR) TECHNOLOGY FOR GLASS FURNACES; ABSTRACT; INTRODUCTION
OENR PRINCIPLE: STAGED COMBUSTION TO REDUCE NOX EMISSIONSOENR MODELLING; CROSS-FIRED FLOAT GLASS FURNACE APPLICATION; END-PORT FURNACE APPLICATION; CONCLUSION; REFERENCES; U.S. AIR REGULATIONS INVOLVING GLASS MANUFACTURING; INTRODUCTION; BASICS OF ENVIRONMENTAL RULEMAKING; CLEAN AIR ACT, PART 70 - TITLE V AIR PERMITS; U.S. EPA MENU OF CONTROL MEASURES; NATIONAL EMISSIONS STANDARDS, HAZARDOUS AIR POLLUTANTS, NESHAPS; NATIONAL AMBIENT AIR QUALITY STANDARDS, NAAQS; GREENHOUSE GAS REGULATIONS; REFERENCES; NEW COMBUSTION TECHNIQUE FOR REDUCING NOx AND CO2 EMISSIONS FROM A GLASS FURNACE; ABSTRACT INTRODUCTION

Sommario/riassunto

The 75th Glass Problem Conference is organized according to the following themes: Glass Melting, Forming, Energy and Environmental, Refractories, Sensors and Control, Modeling