

## Supplementary data

Id, Freq., S19, S390, S391, S392, S393, S389a, S389b, S388, S439, SA72

R-M269

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| CA1    | 2 | 14 | 24 | 11 | 13 | 13 | 14 | 16 | 12 | 13 | 12 |
| CA111  | 4 | 14 | 24 | 10 | 13 | 13 | 13 | 16 | 12 | 12 | 12 |
| CA226  | 5 | 14 | 24 | 11 | 13 | 13 | 13 | 16 | 12 | 13 | 12 |
| CA236  | 1 | 14 | 23 | 11 | 14 | 13 | 15 | 16 | 12 | 13 | 12 |
| CA244  | 1 | 14 | 23 | 11 | 14 | 13 | 13 | 16 | 12 | 13 | 12 |
| CA252  | 1 | 14 | 25 | 10 | 13 | 12 | 13 | 16 | 12 | 12 | 12 |
| CA266  | 1 | 14 | 24 | 10 | 13 | 12 | 14 | 16 | 12 | 13 | 12 |
| CA278  | 1 | 14 | 21 | 11 | 13 | 13 | 13 | 16 | 12 | 11 | 12 |
| CA36   | 5 | 14 | 23 | 10 | 13 | 13 | 13 | 16 | 12 | 12 | 12 |
| CA4    | 4 | 14 | 23 | 11 | 14 | 13 | 14 | 16 | 12 | 13 | 12 |
| CA49   | 1 | 14 | 24 | 10 | 13 | 13 | 13 | 17 | 12 | 12 | 11 |
| CA63   | 1 | 14 | 24 | 10 | 13 | 14 | 13 | 16 | 12 | 11 | 11 |
| CA92   | 1 | 15 | 23 | 10 | 14 | 13 | 13 | 16 | 12 | 11 | 13 |
| DIA23  | 2 | 14 | 24 | 11 | 13 | 13 | 13 | 16 | 12 | 12 | 12 |
| DIA33  | 1 | 14 | 24 | 10 | 13 | 13 | 13 | 16 | 12 | 11 | 12 |
| DIA34  | 1 | 14 | 25 | 11 | 13 | 14 | 13 | 16 | 12 | 11 | 11 |
| DIA37  | 1 | 14 | 23 | 11 | 14 | 13 | 14 | 17 | 12 | 13 | 12 |
| DIA39  | 1 | 14 | 24 | 10 | 13 | 13 | 13 | 16 | 12 | 12 | 11 |
| DIA40  | 1 | 14 | 23 | 10 | 13 | 14 | 14 | 16 | 12 | 12 | 12 |
| DIA49  | 1 | 14 | 24 | 11 | 14 | 13 | 13 | 18 | 12 | 13 | 13 |
| DIA55  | 1 | 15 | 23 | 11 | 13 | 13 | 13 | 16 | 12 | 12 | 12 |
| DIA59  | 1 | 14 | 24 | 12 | 13 | 13 | 13 | 16 | 12 | 13 | 13 |
| DIA66  | 1 | 14 | 24 | 11 | 13 | 13 | 13 | 16 | 12 | 11 | 12 |
| DIA74  | 1 | 14 | 24 | 10 | 14 | 13 | 14 | 16 | 12 | 12 | 12 |
| SOR41  | 1 | 14 | 23 | 10 | 15 | 13 | 14 | 16 | 12 | 13 | 12 |
| SOR46  | 1 | 14 | 25 | 11 | 13 | 13 | 14 | 16 | 12 | 13 | 12 |
| SOR87  | 1 | 14 | 24 | 11 | 13 | 12 | 13 | 16 | 12 | 12 | 10 |
| SOR92  | 1 | 14 | 24 | 11 | 13 | 12 | 13 | 16 | 12 | 13 | 10 |
| SOR98  | 1 | 14 | 23 | 10 | 14 | 13 | 14 | 16 | 12 | 13 | 12 |
| SOR99  | 1 | 15 | 24 | 10 | 13 | 13 | 13 | 16 | 12 | 11 | 13 |
| TEM105 | 1 | 14 | 24 | 10 | 13 | 13 | 13 | 17 | 12 | 12 | 12 |
| TEM108 | 1 | 14 | 24 | 11 | 13 | 13 | 12 | 16 | 12 | 11 | 12 |
| TEM186 | 1 | 15 | 24 | 11 | 13 | 15 | 14 | 16 | 12 | 11 | 12 |
| TEM187 | 1 | 15 | 24 | 11 | 13 | 13 | 14 | 16 | 12 | 13 | 11 |
| TEM199 | 1 | 14 | 24 | 11 | 14 | 13 | 13 | 16 | 12 | 12 | 12 |
| TEM305 | 1 | 14 | 24 | 11 | 13 | 13 | 13 | 16 | 14 | 12 | 12 |
| TEM69  | 1 | 14 | 24 | 11 | 13 | 14 | 14 | 15 | 12 | 13 | 12 |
| TEM85  | 1 | 14 | 24 | 11 | 13 | 13 | 13 | 17 | 12 | 11 | 12 |
| TEM96  | 1 | 14 | 24 | 11 | 13 | 14 | 14 | 16 | 12 | 12 | 12 |

## G-M201

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| CT29   | 1 | 15 | 22 | 10 | 11 | 13 | 13 | 17 | 12 | 13 | 12 |
| DIA137 | 2 | 15 | 23 | 10 | 12 | 14 | 12 | 17 | 12 | 11 | 11 |
| CT71   | 1 | 15 | 23 | 11 | 11 | 13 | 12 | 17 | 12 | 12 | 11 |
| SOR100 | 2 | 15 | 23 | 10 | 11 | 14 | 12 | 17 | 12 | 11 | 11 |
| CT99   | 1 | 15 | 22 | 10 | 11 | 14 | 12 | 16 | 12 | 11 | 11 |
| DIA232 | 2 | 15 | 22 | 11 | 11 | 13 | 14 | 17 | 12 | 13 | 12 |
| DIA15  | 2 | 15 | 23 | 10 | 11 | 14 | 12 | 16 | 12 | 11 | 11 |
| CT156  | 1 | 16 | 24 | 10 | 11 | 14 | 14 | 17 | 12 | 12 | 11 |
| CT165  | 1 | 15 | 21 | 10 | 11 | 13 | 12 | 16 | 12 | 12 | 11 |
| CT205  | 1 | 14 | 22 | 10 | 11 | 14 | 12 | 16 | 12 | 12 | 12 |
| CT207  | 1 | 15 | 21 | 11 | 11 | 14 | 12 | 17 | 12 | 11 | 12 |
| CT226  | 1 | 15 | 22 | 9  | 11 | 14 | 12 | 16 | 12 | 11 | 9  |
| CA42   | 2 | 15 | 22 | 10 | 11 | 13 | 14 | 16 | 12 | 12 | 12 |
| DIA77  | 4 | 15 | 22 | 10 | 11 | 14 | 12 | 17 | 12 | 12 | 11 |
| DIA178 | 2 | 15 | 22 | 11 | 11 | 14 | 13 | 17 | 12 | 11 | 12 |
| SOR94  | 2 | 15 | 22 | 11 | 11 | 13 | 13 | 16 | 12 | 12 | 12 |
| CA57   | 1 | 15 | 23 | 10 | 11 | 14 | 11 | 17 | 15 | 12 | 11 |
| CA67   | 1 | 15 | 23 | 10 | 11 | 14 | 12 | 17 | 12 | 10 | 12 |
| SOR28  | 3 | 15 | 21 | 10 | 11 | 14 | 12 | 17 | 12 | 11 | 11 |
| CA78   | 1 | 16 | 23 | 10 | 12 | 14 | 12 | 17 | 12 | 12 | 11 |
| CA85   | 1 | 15 | 23 | 10 | 11 | 13 | 12 | 15 | 12 | 11 | 13 |
| CA232  | 1 | 15 | 22 | 10 | 11 | 14 | 13 | 17 | 12 | 12 | 12 |
| SOR62  | 1 | 15 | 21 | 10 | 11 | 14 | 12 | 17 | 12 | 13 | 12 |
| SOR71  | 1 | 16 | 22 | 11 | 11 | 14 | 13 | 17 | 12 | 12 | 12 |
| SOR76  | 2 | 15 | 23 | 10 | 11 | 13 | 12 | 17 | 12 | 11 | 11 |
| SOR77  | 1 | 15 | 22 | 10 | 12 | 13 | 14 | 16 | 12 | 12 | 12 |
| TEM316 | 1 | 15 | 22 | 10 | 11 | 13 | 13 | 17 | 13 | 11 | 11 |
| DIA32  | 1 | 15 | 22 | 11 | 11 | 14 | 12 | 16 | 12 | 12 | 11 |
| DIA60  | 1 | 15 | 22 | 11 | 11 | 13 | 14 | 16 | 12 | 13 | 12 |
| DIA65  | 1 | 15 | 24 | 10 | 11 | 14 | 12 | 18 | 12 | 11 | 11 |
| DIA83  | 1 | 15 | 22 | 10 | 11 | 14 | 13 | 17 | 14 | 11 | 11 |
| DIA101 | 1 | 15 | 22 | 10 | 12 | 14 | 12 | 18 | 12 | 13 | 11 |
| DIA167 | 1 | 16 | 21 | 10 | 11 | 14 | 12 | 16 | 12 | 12 | 11 |
| DIA174 | 1 | 15 | 22 | 11 | 11 | 14 | 12 | 17 | 12 | 12 | 11 |
| DIA217 | 1 | 16 | 25 | 10 | 11 | 13 | 14 | 17 | 12 | 12 | 12 |
| DIA233 | 1 | 15 | 23 | 11 | 11 | 15 | 12 | 17 | 12 | 11 | 11 |

## E-M78

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| CT77   | 1 | 15 | 23 | 10 | 11 | 14 | 14 | 17 | 12 | 12 | 12 |
| CA112  | 1 | 14 | 25 | 10 | 11 | 13 | 13 | 17 | 12 | 12 | 12 |
| CT198  | 1 | 14 | 24 | 10 | 11 | 13 | 13 | 19 | 12 | 12 | 12 |
| DIA203 | 1 | 14 | 24 | 10 | 11 | 13 | 13 | 17 | 12 | 11 | 12 |
| CA228  | 1 | 13 | 24 | 10 | 11 | 13 | 14 | 16 | 12 | 12 | 12 |
| CA97   | 1 | 13 | 24 | 10 | 11 | 13 | 13 | 17 | 12 | 11 | 12 |

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| DIA152 | 4 | 13 | 24 | 10 | 11 | 13 | 13 | 17 | 12 | 13 | 12 |
| DIA2   | 1 | 13 | 24 | 10 | 11 | 12 | 13 | 17 | 12 | 12 | 12 |
| DIA230 | 1 | 13 | 25 | 10 | 11 | 13 | 13 | 17 | 12 | 12 | 12 |
| DIA262 | 1 | 13 | 24 | 10 | 11 | 13 | 13 | 18 | 12 | 11 | 12 |
| DIA35  | 1 | 13 | 24 | 10 | 10 | 13 | 12 | 19 | 12 | 10 | 12 |
| DIA374 | 2 | 13 | 24 | 10 | 10 | 13 | 12 | 18 | 12 | 10 | 12 |
| DIA378 | 8 | 13 | 24 | 10 | 11 | 13 | 13 | 17 | 12 | 12 | 12 |
| DIA448 | 3 | 13 | 24 | 10 | 11 | 13 | 13 | 17 | 13 | 13 | 12 |
| TEM232 | 1 | 13 | 24 | 10 | 11 | 13 | 12 | 17 | 12 | 10 | 12 |
| TEM282 | 1 | 13 | 25 | 10 | 11 | 13 | 13 | 19 | 12 | 12 | 13 |

E-M123

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| T106   | 1 | 13 | 25 | 10 | 11 | 13 | 13 | 18 | 12 | 11 | 11 |
| CT6    | 3 | 13 | 24 | 10 | 11 | 12 | 13 | 17 | 12 | 10 | 11 |
| CT88   | 1 | 13 | 24 | 10 | 11 | 13 | 12 | 18 | 12 | 12 | 12 |
| DIA118 | 1 | 13 | 23 | 10 | 11 | 13 | 12 | 17 | 12 | 12 | 13 |
| DIA147 | 1 | 14 | 25 | 10 | 11 | 13 | 13 | 18 | 12 | 11 | 11 |
| DIA422 | 2 | 13 | 25 | 10 | 11 | 13 | 13 | 19 | 12 | 13 | 13 |
| DIA429 | 1 | 13 | 24 | 10 | 11 | 13 | 13 | 18 | 12 | 12 | 13 |
| SOR5   | 1 | 13 | 25 | 11 | 11 | 13 | 13 | 20 | 12 | 13 | 13 |
| TEM169 | 2 | 13 | 25 | 10 | 11 | 13 | 13 | 19 | 12 | 12 | 13 |

J-M172 (xM67, M92)

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| CT11   | 1 | 14 | 25 | 10 | 11 | 12 | 13 | 17 | 14 | 12 | 13 |
| CT31   | 1 | 14 | 24 | 10 | 11 | 13 | 13 | 16 | 15 | 13 | 12 |
| CT66   | 1 | 15 | 23 | 10 | 11 | 12 | 13 | 16 | 15 | 12 | 12 |
| CT73   | 1 | 14 | 25 | 10 | 11 | 12 | 13 | 16 | 15 | 12 | 13 |
| CT100  | 1 | 14 | 23 | 10 | 11 | 12 | 14 | 17 | 16 | 12 | 13 |
| CT189  | 1 | 15 | 25 | 10 | 11 | 13 | 13 | 16 | 14 | 12 | 12 |
| DIA4   | 1 | 15 | 23 | 9  | 11 | 12 | 13 | 16 | 17 | 12 | 13 |
| DIA112 | 1 | 15 | 23 | 9  | 11 | 12 | 13 | 16 | 16 | 13 | 13 |
| DIA193 | 1 | 14 | 25 | 10 | 11 | 12 | 13 | 16 | 15 | 11 | 13 |
| DIA205 | 1 | 14 | 23 | 10 | 11 | 12 | 14 | 16 | 15 | 11 | 12 |
| DIA236 | 1 | 14 | 24 | 10 | 11 | 12 | 14 | 16 | 15 | 11 | 12 |
| DIA294 | 1 | 15 | 23 | 10 | 11 | 12 | 13 | 17 | 14 | 12 | 11 |
| DIA341 | 1 | 17 | 23 | 10 | 11 | 13 | 14 | 15 | 12 | 11 | 11 |
| DIA350 | 1 | 14 | 24 | 10 | 11 | 12 | 13 | 17 | 14 | 12 | 12 |
| DIA354 | 1 | 15 | 25 | 10 | 11 | 14 | 13 | 16 | 14 | 13 | 12 |
| DIA406 | 1 | 14 | 23 | 10 | 11 | 12 | 13 | 17 | 14 | 12 | 11 |
| DIA461 | 1 | 15 | 25 | 10 | 11 | 13 | 13 | 16 | 14 | 13 | 12 |
| DIA477 | 1 | 14 | 23 | 10 | 11 | 12 | 13 | 16 | 15 | 11 | 13 |

J-M67

|      |   |    |    |    |    |    |    |    |    |    |    |
|------|---|----|----|----|----|----|----|----|----|----|----|
| CT39 | 1 | 14 | 22 | 10 | 11 | 12 | 13 | 17 | 15 | 12 | 11 |
|------|---|----|----|----|----|----|----|----|----|----|----|

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| CT96   | 1 | 14 | 23 | 10 | 11 | 12 | 13 | 18 | 15 | 11 | 13 |
| CT112  | 2 | 14 | 23 | 10 | 11 | 12 | 13 | 18 | 15 | 10 | 12 |
| CA286  | 1 | 14 | 24 | 10 | 11 | 12 | 13 | 17 | 15 | 11 | 13 |
| TEM49  | 1 | 14 | 23 | 10 | 11 | 12 | 13 | 18 | 15 | 12 | 13 |
| TEM234 | 1 | 15 | 23 | 9  | 11 | 12 | 13 | 16 | 14 | 13 | 13 |
| DIA63  | 1 | 14 | 23 | 10 | 11 | 12 | 13 | 18 | 15 | 10 | 13 |
| DIA153 | 1 | 14 | 23 | 10 | 11 | 12 | 14 | 16 | 15 | 11 | 12 |
| DIA176 | 1 | 16 | 23 | 10 | 11 | 12 | 14 | 16 | 15 | 11 | 13 |
| DIA255 | 1 | 16 | 23 | 10 | 11 | 12 | 14 | 16 | 15 | 10 | 13 |
| DIA289 | 1 | 14 | 23 | 10 | 11 | 13 | 13 | 17 | 15 | 10 | 12 |
| DIA310 | 1 | 14 | 23 | 10 | 11 | 12 | 14 | 17 | 15 | 12 | 13 |
| DIA355 | 2 | 15 | 23 | 10 | 11 | 12 | 13 | 16 | 15 | 11 | 13 |
| DIA379 | 2 | 14 | 23 | 10 | 11 | 12 | 14 | 17 | 15 | 11 | 13 |
| DIA451 | 1 | 14 | 23 | 10 | 11 | 12 | 13 | 16 | 15 | 11 | 13 |

J-M92

|        |   |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|
| DIA450 | 1 | 14 | 22 | 10 | 11 | 12 | 12 | 16 | 15 | 11 | 13 |
| DIA38  | 2 | 15 | 22 | 10 | 12 | 13 | 13 | 17 | 15 | 12 | 12 |
| DIA436 | 2 | 15 | 22 | 10 | 11 | 13 | 13 | 17 | 15 | 12 | 12 |
| DIA48  | 1 | 14 | 22 | 10 | 11 | 12 | 13 | 16 | 15 | 11 | 13 |
| DIA368 | 1 | 13 | 24 | 10 | 11 | 13 | 13 | 17 | 15 | 12 | 12 |
| CA61   | 1 | 15 | 22 | 10 | 11 | 13 | 13 | 16 | 15 | 12 | 12 |
| CA86   | 1 | 15 | 22 | 10 | 12 | 13 | 13 | 16 | 15 | 12 | 12 |
| CT206  | 1 | 14 | 23 | 10 | 11 | 14 | 13 | 17 | 15 | 12 | 13 |
| DIA284 | 1 | 14 | 22 | 10 | 11 | 12 | 14 | 16 | 15 | 11 | 13 |
| CA45   | 1 | 15 | 23 | 10 | 11 | 13 | 13 | 14 | 15 | 12 | 12 |
| CT158  | 1 | 14 | 22 | 10 | 11 | 12 | 13 | 16 | 13 | 11 | 13 |
| DIA290 | 1 | 15 | 22 | 10 | 12 | 13 | 13 | 17 | 16 | 12 | 12 |

I-M26

|       |   |    |    |    |    |    |    |    |    |    |    |
|-------|---|----|----|----|----|----|----|----|----|----|----|
| CT55  | 4 | 16 | 23 | 10 | 11 | 13 | 13 | 15 | 13 | 11 | 11 |
| CT132 | 2 | 17 | 23 | 10 | 11 | 13 | 13 | 15 | 13 | 12 | 11 |
| CT22  | 1 | 17 | 23 | 10 | 11 | 12 | 13 | 15 | 13 | 12 | 12 |
| CT102 | 2 | 16 | 23 | 10 | 11 | 13 | 13 | 17 | 13 | 12 | 11 |
| CT111 | 2 | 16 | 24 | 10 | 11 | 13 | 13 | 15 | 13 | 10 | 11 |
| CT109 | 3 | 17 | 23 | 10 | 11 | 13 | 13 | 15 | 13 | 11 | 11 |
| CT46  | 1 | 18 | 23 | 10 | 11 | 13 | 12 | 15 | 14 | 12 | 11 |
| CT54  | 1 | 16 | 23 | 11 | 12 | 13 | 13 | 15 | 13 | 12 | 11 |
| CT85  | 1 | 17 | 23 | 11 | 11 | 13 | 13 | 15 | 13 | 11 | 11 |
| CT93  | 1 | 15 | 23 | 10 | 11 | 13 | 13 | 15 | 13 | 11 | 11 |
| CT105 | 1 | 15 | 23 | 11 | 11 | 12 | 13 | 16 | 13 | 12 | 11 |
| CT114 | 1 | 15 | 22 | 10 | 11 | 13 | 13 | 17 | 13 | 12 | 12 |
| CT115 | 1 | 16 | 23 | 10 | 11 | 12 | 14 | 15 | 13 | 12 | 11 |
| CT122 | 1 | 16 | 24 | 10 | 11 | 13 | 13 | 14 | 13 | 10 | 11 |
| CT126 | 1 | 16 | 23 | 10 | 11 | 13 | 14 | 17 | 13 | 11 | 12 |

|       |   |    |    |    |    |    |    |    |    |    |    |
|-------|---|----|----|----|----|----|----|----|----|----|----|
| CT127 | 1 | 17 | 23 | 10 | 11 | 13 | 13 | 16 | 13 | 11 | 11 |
| CT131 | 1 | 17 | 24 | 10 | 11 | 13 | 14 | 15 | 13 | 11 | 11 |
| CT171 | 1 | 15 | 23 | 10 | 11 | 13 | 13 | 14 | 13 | 11 | 11 |
| CT172 | 1 | 17 | 24 | 10 | 11 | 13 | 13 | 15 | 13 | 10 | 11 |
| CT177 | 1 | 14 | 24 | 11 | 13 | 13 | 13 | 16 | 12 | 12 | 13 |
| SOR40 | 1 | 16 | 23 | 10 | 11 | 13 | 13 | 15 | 15 | 10 | 12 |

R-M18

|        |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|
| CA269  | 11 | 15 | 24 | 10 | 13 | 13 | 13 | 15 | 12 | 12 | 12 |
| DIA97  | 1  | 15 | 22 | 10 | 13 | 13 | 13 | 15 | 12 | 12 | 12 |
| DIA426 | 1  | 15 | 24 | 11 | 13 | 13 | 14 | 15 | 12 | 12 | 12 |